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A liver-specific long non-coding RNA with a role in cell viability is elevated in human non-alcoholic steatohepatitis

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List of abbreviations

BMI	body mass index
FDR	false discovery rate
lncRNA	long non-coding RNA
NAFLD	non-alcoholic fatty liver disease
NAS	NAFLD activity score
NASH	non-alcoholic steatohepatitis
qRT-PCR	quantitative RT-PCR
ROS	reactive oxygen species
shRNAs	short hairpin RNAs

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Conflict of interest

The authors report no conflicts of interest in this work.

Abstract

Hepatocyte apoptosis in non-alcoholic steatohepatitis (NASH) can lead to fibrosis and cirrhosis, which permanently damage the liver. Understanding the regulation of hepatocyte apoptosis is therefore important to identify therapeutic targets that may prevent the progression of NASH to fibrosis. Recently, increasing evidence has shown that lncRNAs are involved in various biological processes and that their dysregulation underlies a number of complex human diseases. By performing gene expression profiling of 4,383 lncRNAs in 82 liver samples from individuals with NASH (n=48), simple steatosis but no NASH (n=11) and healthy controls (n=23), we discovered a liver-specific lncRNA (*RP11-484N16.1*) on chromosome 18 that showed significantly elevated expression in the liver tissue of NASH patients. This lncRNA, which we named lnc18q22.2 based on its chromosomal location, correlated with NASH grade ($r=0.51$, $P=8.11 \times 10^{-7}$), lobular inflammation ($r=0.49$, $P=2.35 \times 10^{-6}$) and non-alcoholic fatty liver disease activity score ($r=0.48$, $P=4.69 \times 10^{-6}$). The association of lnc18q22.2 to liver steatosis and steatohepatitis was replicated in 44 independent liver biopsies ($r=0.47$, $P=0.0013$). We provided a genetic structure of lnc18q22.2 showing an extended exon 2 in liver. Knockdown of lnc18q22.2 in four different hepatocyte cell lines resulted in severe phenotypes ranging from reduced cell growth to lethality. This observation was consistent with pathway analyses of genes co-expressed with lnc18q22.2 in human liver or affected by lnc18q22.2 knockdown. **Conclusion:** we identified a lncRNA that can play an important regulatory role in liver function and provide new insights into the regulation of hepatocyte viability in NASH.

Non-alcoholic fatty liver disease (NAFLD) is a spectrum of conditions ranging from hepatocellular steatosis through steatohepatitis to fibrosis and irreversible cirrhosis. It is currently the most prevalent chronic liver disease and highly associated with metabolic syndrome and obesity.⁽¹⁾ Non-alcoholic steatohepatitis (NASH) is the progressive form of NAFLD. The major features of NASH include not only a fatty liver and inflammation but also hepatocyte apoptosis.⁽²⁾ NASH can be severe and can lead to fibrosis and cirrhosis, which permanently damage and scar the liver, disrupting hepatic function.⁽³⁾ Preventing NASH from progressing to fibrosis and cirrhosis is therefore crucial. However, treatment options remain limited and are restricted to lifestyle improvement and body weight control.⁽⁴⁾ Understanding the regulation of hepatocyte apoptosis will contribute to the identification of molecular targets that prevent NASH progression.

Transcriptome analysis has been used to identify molecular mechanisms involved in NAFLD and NASH.^(5,6) Previously, we profiled genome-wide transcripts in multiple tissue types from a Dutch obesity cohort using microarray to identify novel protein-coding genes in NASH patients, including tissue-specific adipokines⁽⁷⁾ and the cholesteryl ester transfer protein.⁽⁸⁾ In recent years, with the advance of RNA-seq technology, a large proportion of the human genome has been found to produce functional RNA molecules rather than encoding proteins, and these functional RNAs are known as non-coding RNAs. Non-coding RNAs are classified into different groups that include microRNAs, small interfering RNAs, piwi-interacting RNAs and the largest group, long non-coding RNAs (lncRNAs). A lncRNA is defined as a non-coding transcript longer than 200 nucleotides with an exon-intron structure.⁽⁹⁾ To date, more than 15,000 lncRNAs have been annotated in the human genome.

Increasing evidence has shown that lncRNAs play important roles in numerous physiological processes by regulating gene expression and modulating protein function through a variety of

mechanisms.⁽¹⁰⁾ Dysregulation of lncRNAs has also been shown to contribute to the progression of many diseases, including liver disease.⁽¹¹⁾ Individual lncRNAs associated to metabolic disorders and liver diseases have been identified in mice and humans. For instance, *lncLSTR*, a liver-enriched lncRNA, was identified as a putative regulator of plasma triglyceride levels in mice, but no human orthologue was found.⁽¹²⁾ An antisense lncRNA to apolipoprotein A1 (*APOA1-AS*) has been shown to negatively regulate the expression of *APOA1*, a major component of high-density lipoprotein.⁽¹³⁾ The lncRNAs *Meg3* and *MALAT-1* may be involved in hepatocellular carcinoma by regulating gene expression and alternative splicing, respectively.^(14,15) Although over 1,000 lncRNAs have been reported to be associated with NAFLD, their role in this disease remains largely unknown.⁽¹⁶⁾ Moreover, their potential as non-invasive biomarkers is largely unexplored, as non-coding RNAs can form stable secondary structures that can be detected in circulating exosomes.^(11,17)

In this study, we report the discovery of lnc18q22.2, a liver-specific lncRNA (*RP11-484N16.1*) involved in cell viability with elevated expression in the liver of NASH patients. An overview of this study is presented in Figure 1. The involvement of lncRNAs in NASH was first identified by association analyses between the expression levels of 4,383 lncRNAs and detailed histological analysis of NASH phenotypes in 82 liver samples. The expression of lnc18q22.2 was significantly elevated in NASH patients, a finding that we replicated in an independent dataset. We then assessed lnc18q22.2's structure, abundance and cellular location. Further, we investigated its downstream effect by silencing it in four hepatocyte cell lines (hepatocellular carcinoma derived HepG2, Huh7 and Hep3B cell lines and the non-tumorous cell line immortalized human hepatocytes [IHH]) and two non-hepatocyte cell lines as controls (HEK293T and HeLa). This lnc18q22.2 knockdown resulted in negative regulation of cell viability in hepatocytes. Finally, the underlying processes were

assessed by pathway analysis of co-expressed genes and of genes affected by lnc18q22.2 knockdown using RNA-seq.

Materials and methods

Liver biopsies and NASH phenotypes

Our study cohort consisted of liver biopsies from 82 severely obese Dutch individuals with a body mass index (BMI) between 30 and 73 who underwent elective bariatric surgery in the Department of General Surgery, Maastricht University Medical Center. The collection and processing of liver biopsies are described in details in the online methods. Exclusion criteria for this cohort were individuals with acute or chronic inflammatory disease (e.g. autoimmune disease), with degenerative disease, who reported alcohol consumption of >10 g/day, or who used anti-inflammatory drugs. NASH phenotypes were analyzed by an experienced pathologist who was blinded to the clinical and biochemical parameters. NASH staging and grading was performed according to the Brunt scoring system.⁽¹⁸⁾ Moreover, each individual was scored for seven different histological parameters of liver pathology: steatosis, fibrosis, inflammation (lobular inflammation, large lipogranulomas, portal inflammation), liver cell injury (ballooning) and glycogenated nuclei according to the scoring system described by Kleiner⁽¹⁹⁾ (Supporting Table S1). The NAFLD activity score (NAS) was calculated according to the Kleiner scoring system. Circulating levels of the liver enzymes aspartate-amino transferase and alanine-amino transferase were also measured and used for the analysis. The study was approved by the Medical Ethics Board of the Maastricht University Medical Center, in line with the ethical guidelines of the 1975 Declaration of Helsinki. Informed consent was obtained in writing from each participant.

Microarray data generation and lncRNA probe mapping

RNA was isolated and profiled as described previously.⁽²⁰⁾ The average RNA integrity number for RNA quality was 7.6, with a range of 5.7 – 9.3. Whole-transcriptome expression profiling was performed on 82 liver samples using Illumina Human HT12 Bead Chips (Illumina, San Diego, CA, USA).⁽²⁰⁾ Although not designed for lncRNA quantification, this platform contains probes for transcripts with unknown function and without significant coding potential. In order to identify which probes cover lncRNA genes, two human lncRNA annotation databases were used:

GENCODE version 19 (July 2013; 13,870 annotated lncRNAs;

<http://www.gencodegenes.org/stats/archive.html#a19>) and the Human Body Map catalog (>8,000 annotated long intergenic non-coding RNAs, a subclass of lncRNAs;

http://www.broadinstitute.org/genome_bio/human_lincrnas/?q=home). LncRNAs were quantified using probes that mapped to one or both database annotations and did not overlap with protein-coding genes or other lncRNAs. The final list of probes used to determine lncRNA expression contained 4,468 probes covering 4,383 lncRNAs. Data were log₂ transformed, quantile normalized and corrected for batch effects.⁽²⁰⁾

Correlation of lncRNA expression profiles with NASH phenotypes

To determine the correlations between lncRNA expression and NASH phenotypes, Spearman's rank correlation coefficients were determined between lncRNA expression values and the values of the measured traits, including NASH phenotypes. For these probe-level correlations, permutation testing was performed to estimate the false discovery rate (FDR)-corrected *P*-values. To correct for age,

gender and BMI, a linear model was run for all lncRNAs and their top significant phenotype associations. For these genome-wide correlations, we made use of the FDR-corrected P -value.

Replication of the associations for microarray probes

In order to replicate our findings, we downloaded a dataset from the Gene Expression Omnibus (accession number GSE33814).⁽²¹⁾ The dataset consisted of 44 human liver tissue samples obtained from patients with alcoholic and non-alcoholic steatohepatitis (normal [n=13], steatosis [n=19], and steatohepatitis [n=12]) obtained from patients undergoing liver surgery for hepatocellular carcinoma, malignancies/metastatic diseases, or benign tumors of the liver and from organs dedicated to transplantation. However, the cohort contained both alcoholic and non-alcoholic steatohepatitis.

There was no individual phenotype information available and we could not compute analysis for ASH and NASH patients separately. Healthy, non-tumorous liver tissue with no detectable pathological changes was removed from patients undergoing surgical resection of liver metastases as control tissue. Whole genome expression microarray SentrixH Human-6 v3 expression bead chips (Illumina) were used, which encompass probes for 48,804 genes including lncRNAs. These data were log2-transformed and quantile normalized. To test whether lnc18q22.2 associated with liver cancer, we compared liver expression of lncRNA between 73 HCC patients and 85 healthy control samples, downloaded from the Sequence Read Archive [SRA]- <http://www.ncbi.nlm.nih.gov/sra/>. As a positive control, we also checked two established cancer lncRNAs (*MALATI*⁽¹⁵⁾ and *HULC*⁽²²⁾), both showing significant associations with HCC (*MALAT*: $P=3.00 \times 10^{-10}$ and *HULC*: $P=3.64 \times 10^{-5}$) (Supporting Figure S6). Moreover, no aetiology information of HCC patients was available.

Liver-specific expression and structure of lnc18q22.2

To assess the expression level and transcript structure of lnc18q22.2 in the liver, we first compared its predicted structure as annotated in the GENCODE and Human Body Map databases. In addition, we extracted RNA-seq data on 30 tissue and 67 cell types through the Sequence Read Archive [SRA] - <http://www.ncbi.nlm.nih.gov/sra/>, including 63 liver samples and 34 HepG2 cell line samples.⁽²³⁾ Expression values in these samples were normalized with the Trimmed Mean of M-values method using the R package "edgeR"⁽²⁴⁾ The average of the normalized expression values per tissue or cell line was used. The RNA-seq read distribution showed a liver-specific structure for lnc18q22.2 and confirmed the liver-specificity of its expression. Further, several RT-PCR and quantitative RT-PCR (qRT-PCR) experiments were performed to validate the expression and structure of lnc18q22.2 and its cellular location, as described in detail in the online methods. In brief, to evaluate the potential of lnc18q22.2 as a non-invasive biomarker, we measured the abundance of lnc18q22.2 in 8 plasma samples and 1,141 whole blood samples. We validated the transcript structure of lnc18q22.2 using qPCR, followed by Sanger sequencing. We performed qRT-PCR to validate the association of lnc18q22.2 in 33 randomly selected liver samples, including normal (n=8), NAFLD (n=8) and NASH (n=17) samples. We tested the expression of lnc18q22.2 in five hepatocyte cell lines (hepatocellular carcinoma [HCC]-derived HepG2 [ATCC, HB-8065], Hep3B [ATCC, HB-8064], Huh7 [JCRB Cell Bank, JCRB0403]; the non-tumorous cell line IHH⁽²⁵⁾ and in RNA isolated from 3 different batches of human primary hepatocytes (HPH) [Tebu-Bio, Heerhugowaard, The Netherlands]. Moreover, the log2 ratio of cytoplasmic and nuclear fractions of lnc18q22.2 was estimated in HepG2 cell line.

lnc18q22.2 co-expression network analysis

To predict a function for lnc18q22.2, we performed guilt-by-association analysis using data from 37,776 genes on the Illumina microarray. We assessed whether lnc18q22.2 expression correlated

with the expression of genes in *cis* (within 5 Mb distance) and in *trans* (genome-wide) using Spearman's correlation test. A FDR of 0.05 was used to correct for multiple testing.⁽²⁶⁾ All significant correlations (FDR <0.05) were analyzed for pathway analysis using the DAVID database (<https://david.ncifcrf.gov>).⁽²⁷⁾

Lnc18q22.2 knockdown, cell survival counts and western blotting

To knockdown lnc18q22.2, we designed two short hairpin RNA (shRNA) cassettes for cloning into the lenti-viral pLKO TRC vector. The cassettes were specifically designed using the full lnc18q22.2 sequence and targeted only lnc18q22.2 and not the overlapping transcript. For this purpose, we used the siRNA selection program (<http://sirna.wi.mit.edu/>) and designed two shRNAs and one mock shRNAs (see Online Methods). Upon annealing of the oligos, the shRNAs were cloned into the pLKO TRC vector and lentiviral particles were produced as described previously.⁽²⁸⁾

Cell survival counts. Cells (HepG2, Hep3B, Huh7, IHH, HEK293T and HeLa) were seeded in triplicate into 12 well plates for counting surviving cells and transduced with lentiviral particles as described above. Surviving cells were counted after 3, 6 and 9 days of puromycin selection.

The effect of lnc18q22.2 knockdown on apoptosis (western blot). The cleavage of Poly(ADP-ribose) polymerase 1 (PARP-1) was assessed by western blotting as an indicator of apoptosis. Total cell lysates were extracted from cells treated with virus particles expressing shRNA1, shRNA2 or control shRNAs. Protein concentration was determined by BCA assay (Pierce, Rockford, IL, USA) and proteins were separated by 8% SDS-PAGE and then transferred to PVDF membranes. The membranes were probed with cleaved PARP-1 antibody (1:1000) (Cell Signaling Technology)

detecting both full size (116 kDa) and cleaved PARP protein fragment (89 kDa). Anti-beta actin antibody (1:1000) was used as a control. Membranes were incubated overnight at 4°C, followed by 1 hour incubation with HRP-labeled secondary antibody. The Femto kit (Thermo Fisher Scientific) was used for detection and the signal was quantified using the ChemiDoc XRS gel documentation system (Bio-Rad Laboratories, Hercules, USA). Experiments were performed in triplicate for all three time points (1, 2 and 3 days after virus transduction). The results were similar at all time points, therefore only the results from day 3 are presented.

The effect of lnc18q22.2 knockdown on apoptosis and necrosis (nuclear staining). IHH and Huh7 cells were incubated in virus media for 48 h and analyzed for necrosis and apoptosis. Sytox green staining (Invitrogen, S7020) was used to detect necrotic nuclei (1:40000 dilution, for 15 min)⁽²⁹⁾ and acridine orange staining (Sigma, A8097) was used to detect apoptotic nuclei (1:4000 dilution, for 15 min).⁽³⁰⁾ Fluorescent nuclei were visualized using an EVOSTM FL Cell Imaging System (Advanced Microscopy Group, Bothell, WA). Pictures were taken at three time points (1–3 days after virus transduction), in triplicate.

RNA-seq of lnc18q22.2 knockdown cell lines. HepG2 and Hep3B were seeded into six well plates (200,000 cells per well) and incubated with lentivirus particles for 48 h once 80% confluency was reached. Green fluorescent protein (an in-house generated plasmid similar to pRRLSIN.cPPT.PGK-GFP.WPRE from Addgene) was used to monitor the transduction efficiency in all cell lines. After the virus-particle-containing medium was removed (after 48 hours), fresh complete culture medium was added for 24 hours. After 72 hours, Hep3B and HepG2 cells were treated with puromycin (1 µg/ml) for 3 and 4 days, respectively, to produce stable cell lines, followed by RNA isolation. All experiments were performed in duplicate. Twelve samples in total were selected for RNA

sequencing, including 6 samples per cell line (HepG2, Hep3B): knockdown shRNA1, knockdown shRNA2 and control mock shRNA, each in duplicate. RNA was isolated using Qiazol reagent (Qiagen, Germantown, MD, USA) and purified using the RNeasy Mini Kit (Qiagen). RNA concentration was measured by spectrophotometry and cDNA was reverse transcribed for qRT-PCR. Before RNA-seq libraries were prepared, qRT-PCR was performed to confirm lnc18q22.2 knockdown and the quality of the isolated RNA was measured on a bioanalyzer (PerkinElmer LabchipGX, PerkinElmer, Waltham, MA, USA). Sample preparation was done using standard Illumina TruSeq mRNA-SamplePrep, and paired-end sequencing was performed on the Illumina HiSeq2500 sequencer. On average, ~18 million reads were produced per sample. All RNA-seq reads were aligned to the human genome (hg19) using STAR⁽³¹⁾ and rlog normalized using the R package “DESeq2”.⁽³²⁾ The same package was used to analyze differentially expressed genes between the two knockdown groups versus control. Differentially expressed genes with a FDR <0.01 were selected for pathway enrichment analysis. The DAVID database was also used for this purpose.⁽²⁷⁾

Results

Lnc18q22.2: a lncRNA associated with NASH

Whole genome gene expression oligonucleotide arrays have played a crucial role in quantitatively determining the levels of gene expression. Even though most of the currently available commercial microarrays are designed to capture all known protein-coding transcripts, they also include subsets of probes that capture transcripts of unknown function. To identify lncRNAs associated with NASH, we took advantage of microarray-based expression data of 82 liver samples and mapped 4,468 microarray probes to 4,383 lncRNAs located in intergenic regions, hereafter referred to as the in-

house microarray data (Figure 1). Spearman's rank correlation revealed three lncRNA probes that correlated with NASH-related phenotypes at a FDR of ≤ 0.05 (Supporting Table S2). The strongest association was detected for lncRNA *RP11-484N16.1* on chromosome 18, which correlated with NASH grade ($r=0.51$, $P=8.11 \times 10^{-7}$), lobular inflammation ($r=0.49$, $P=2.35 \times 10^{-6}$) and NAS score ($r=0.48$, $P=4.69 \times 10^{-6}$) (Figure 2). *RP11-484N16.1* expression also showed a nominally significant association with fibrosis ($r=0.35$, $P=0.0018$) (Supporting Figure S1A). The other two lncRNAs detected were *MAPKAPK5-AS1* and *RP4-763G1.2* (Supporting Table S2 and Supporting Figure S1B-C). After correcting for age, sex and BMI, only *RP11-484N16.1* was significantly associated to NASH (Supporting Table S2). We then named it, lnc18q22.2 based on its physical position. Interestingly, lnc18q22.2 was significantly associated with liver steatosis and steatohepatitis (including alcoholic and non-alcoholic steatohepatitis) in 44 independent liver biopsies ($r=0.47$, $P=0.0013$) (Supporting Figure S2), but not with hepatocellular carcinoma ($P=0.12$) (Supporting Figure S6).

Specific expression and transcript structure of lnc18q22.2 in liver and hepatocyte cell lines

Lnc18q22.2 was previously annotated to chromosome region 18q22.2 and does not overlap with any established protein-coding genes except one putative transcript for the putative protein-coding gene *RP11-4104.1* (Figure 3A). The closest known protein-coding gene is the suppressor of cytokine signaling 6 (*SOCS6*), which is some 5 kb upstream (Supporting figure S3). Lnc18q22.2 contains two exons and annotations of the second exon are not consistent across different databases. The GENECODE database indicates a length of 287 bp for this second exon whereas the liver tissue panel of the Human Body Map database annotation is longer, 537 bp, and fully overlaps with the

microarray probe of lnc18q22.2 (Figure 3A). We therefore further delineated the transcript structure of lnc18q22.2 in liver samples and validated the association of lnc18q22.2 with NASH. First, RNA-seq data from 2,432 samples from 30 different tissues and 67 different cell lines were extracted from the SRA, hereafter referred to as public SRA-seq data. The average intensity of SRA-seq reads from 63 liver samples confirmed the extended exon 2 seen in the Human Body Map database (Figure 3A). Thus, the total length of the lncRNA transcript was estimated to be 633 bp. Second, RT-PCR experiments were performed to validate the transcript structure of lnc18q22.2 (Figure 3A). The PCR products showed the expected length (Figure 3B) and were validated by Sanger sequencing. Moreover, the expression level of lnc18q22.2 and its association with NASH were validated in 33 random samples by qRT-PCR. The relative expression of lnc18q22.2 assessed by qRT-PCR was positively correlated with the intensity level of the microarray probe ($r=0.74$, $P=8.50 \times 10^{-7}$) (Supporting Figure S4A), NASH grade ($r=0.65$, $P=4.55 \times 10^{-5}$), NAS score ($r=0.58$, $P=8.64 \times 10^{-4}$), and lobular inflammation ($r=0.62$, $P=1.38 \times 10^{-4}$) (Supporting Figure S4B).

Liver-specific expression of lnc18q22.2 had already been suggested in the Human Body Map catalog in 2011.⁽³³⁾ Comparing the average expression level of lnc18q22.2 across 30 different tissues and 67 different cell lines (public SRA-seq data) confirmed that lnc18q22.2 is predominantly expressed in liver tissue and in the HCC cell line HepG2 (Figure 3C). Lnc18q22.2 was not detected in whole blood ($n=1141$) or plasma samples of four healthy volunteers and four NASH patients (Supporting Table S4). The liver-specific expression of lnc18q22.2 was further confirmed by qRT-PCR analysis in five hepatocyte cell lines (HCC-derived Huh7, Hep3B, and HepG2 cells, non-tumorous IHH cells and primary human hepatocytes) and two non-hepatocyte cell lines (HEK293T and HeLa). Lnc18q22.2 was expressed in all hepatocytes, especially HepG2, IHH and PHH. No expression was

detected in HEK293T cells and very low expression was found in HeLa cells (Figure 3D). Moreover, fractionation experiments showed that lnc18q22.2 was mainly present in the cytoplasm (Figure 3E).

To evaluate the protein-coding potential of lnc18q22.2, we used the Coding Potential Calculator tool (<http://cpc.cbi.pku.edu.cn/>)⁽³⁴⁾ and the Coding Potential Assignment Tool (<http://lilab.research.bcm.edu/cpat/index.php>)⁽³⁵⁾. Both tools did not detect an open reading frame (ORF) for both the novel and annotated sequence of lnc18q22.2.

Taken together, these results have validated the association of lnc18q22.2 with NASH and revealed its novel transcript structure, high expression in liver tissue, subcellular localization in the cytoplasm and lack of coding potential.

lnc18q22.2 is crucial for growth and viability of hepatocytes

To further elucidate the function of lnc18q22.2, two different shRNA cassettes were used to silence its expression in four different hepatocyte cell lines (HepG2, Hep3B, Huh7, and IHH) (Figure 4A). Both shRNAs significantly down-regulated the expression of lnc18q22.2 in all four hepatocyte cell lines, with shRNA1 showing a stronger effect than shRNA2 (Figure 4A). Notably, the silencing of lnc18q22.2 expression resulted in reduced growth in HepG2 and IHH cells (only shRNA1) and promoted cell death in Huh7 (both shRNA1 and shRNA2) and Hep3B cells (only shRNA1) (Figure 4B). Huh7 cells died within 2–4 days of shRNA1-mediated knockdown and within 4–6 days of shRNA2-mediated knockdown, whereas Hep3B cells died 6–8 days after shRNA1-mediated knockdown. HepG2 and IHH cells did not die, but cell growth in the shRNA1 knockdown was markedly reduced compared to controls. Furthermore, shRNA1 seemed to be more efficient in down-

regulating the expression of lnc18q22.2 than shRNA2 (Figure 4A). The downstream phenotype in shRNA1-mediated knockdown is consistently more severe than that in shRNA2.

To exclude any potential off-target effects of both shRNAs, we stably expressed both shRNAs in two control cell lines (HEK293T and HeLa cells) in which lnc18q22.2 was not expressed or showed a very low level of expression (Figure 3D). No differences in cell viability and cell growth were seen in the HEK293T and HeLa cells (Figure 4B).

To further characterize the cell death phenotype, we assessed cell viability in lnc18q22.2 knockdown in Huh7 cells (both shRNAs) and IHH cells (shRNA1). Cleavage of full size PARP-1 is a hallmark of apoptosis. We observed a significant reduction of full size (intact) PARP-1 (Figure 5A) and a significant increase in necrotic nuclei as visualized by using Sytox green staining (Figure 5B). But knockdown did not increase the number of apoptotic nuclei as visualized by Acridine orange staining (Supporting Figure 6).

lnc18q22.2 involvement in essential biological processes in hepatocytes

To gain more insight into the potential role of lnc18q22.2 in hepatocyte cell viability, we performed various pathway analyses on genes co-expressed with lnc18q22.2 based on the in-house microarray data and using the RNA-seq data from the lnc18q22.2 knockdown cell lines.

First, we examined whether lnc18q22.2 affects nearby protein-coding genes (i.e., the *cis*-regulatory effect) by testing the correlation between lnc18q22.2 expression and the expression of genes residing within 5 Mb, using the microarray data of the NASH cohort and the RNAseq data of 63 liver samples and 34 HepG2 cell lines from the public SRA-seq data (Supporting Table S3). Analysis of

the microarray data did not reveal any genes correlated with lnc18q22.2 within 5 Mb. However, the putative protein-coding genes *RP11-4104.1* and *SOCS6* were associated with lnc18q22.2 expression in the public-seq data (Supporting Table S3, Supporting Figure S3). The function of *RP11-4104.1* is unknown. Depletion of *SOCS6* has previously been linked to suppression of programmed cell death and apoptosis.⁽³⁶⁾ However, we observed the opposite in our cellular models. The protein-coding genes nearby could not explain the observed effect of lnc18q22.2 on cell viability.

At the genome-wide level, 1,985 genes were significantly co-expressed with lnc18q22.2 at FDR<0.05 level in the in-house microarray data (Figure 6A, Supporting Table S5). Among these, 984 positively co-expressed genes were enriched for the wound healing pathway and the regulation of apoptosis and cell death pathways, whereas 1,001 negatively co-expressed genes were enriched for the oxidation reduction pathway (Figure 6A).

We further performed RNA-seq experiments to profile gene expression in Hep3B and Hep2G cells after knockdown of lnc18q22.2; unfortunately, not enough cells could be harvested from the Huh7 knockdown experiment for RNA-seq analysis. From the genes within the 5 Mb region, *SOCS6* was down-regulated in both the HepG2 (log2 fold change=-0.41, FDR=5.09x10⁻⁵) and Hep3B shRNA1 (log2 fold change=-0.51, FDR=1.47x10⁻³) knockdown but not in the shRNA2 knockdown. No effect was observed for the putative protein-coding gene *RP11-4104.1*. At genome-wide scale, we confined the pathway analysis to genes that were significantly affected at FDR 0.01 level. In HepG2 cells, 4,045 genes were affected by shRNA1, 3,209 genes were affected by shRNA2 and 1,821 genes were affected by both shRNAs (Figure 6B). Out of the genes affected by both shRNAs, 1,625 genes (89.2%) showed the same direction of regulation (Supporting Table S6). In Hep3B cells, 4,976 genes were differentially expressed in shRNA1 and 3,766 genes in shRNA2 at FDR 0.01, with 1,724 of the 2,063 shared genes (83.5%) affected in the same direction in both shRNAs (Figure 6B, Supporting

Table S7). Pathway analyses were performed on the 1,625 regulated genes in HepG2 cells and the 1,724 regulated genes in Hep3B cells that were consistently affected by shRNA1 and shRNA2. The down-regulated genes in the knockdown (i.e. those positively regulated by lnc18q22.2) were consistently enriched for the pathways of cell death, apoptosis (enriched in anti-apoptotic genes) and translation elongation. The up-regulated genes in knockdown (i.e. those negatively regulated by lnc18q22.2) were mostly enriched for the oxidation reduction pathway (Figure 6B). These results are in line with our co-expression analysis of the microarray data (Figure 6A). The same pathways were enriched in the 201 up-regulated and the 278 down-regulated genes in HepG2 and Hep3B cells (Figure 6C, Supporting Table S8 and S9). These genes were most enriched in the translation elongation pathway ($FDR=6 \times 10^{-16}$) (Figure 6C). These results indicate that lnc18q22.2 may be directly or indirectly involved in numerous essential biological processes in hepatocytes, including oxidation reduction, translation elongation, and regulation of cell death.

Discussion

In recent years, several lncRNAs have been described to play a functional role in the pathogenesis of different liver diseases.⁽¹¹⁾ These lncRNAs can serve as biomarkers for use in disease diagnosis, in disease prognosis or in therapeutic response, and they may also represent direct targets for therapeutic intervention.^(37,38) In the current study, we identified lnc18q22.2 as a novel liver-specific lncRNA with elevated expression in the liver of NASH patients. Silencing the expression of lnc18q22.2 resulted in either a lethal phenotype or decreased cell viability in four hepatocyte cell lines. Pathway analysis indicated that lnc18q22.2 might be involved in mRNA translation, cell death, apoptosis and oxidative reduction. Elevated lnc18q22.2 expression was also observed in patients

with steatohepatitis in a mixed patient cohort of both ASH and NASH, but not in HCC patients. However, such analysis was performed in publically available datasets (with small sample size and/or without detailed phenotypic information), thus we cannot support or rule out the role of lnc18q22.2 in ASH, NASH- associated HCC or other liver diseases. This needs to be further investigated. Moreover, our data do not support the potential of lnc18q22.2 as a non-invasive biomarker for NASH, as it was undetectable in circulation, neither in NASH patients nor in whole blood samples.

Our data show that genes negatively regulated by lnc18q22.2 are enriched in the process of oxidation reduction. This is consistent with the observation that NAFLD is often accompanied by increased oxidative stress. Reactive oxygen species (ROS) attack cellular macromolecules such as DNA, lipids and proteins and have been detected in the liver of NAFLD patients and animal models of NAFLD.

^(39,40) The expression of lnc18q22.2 was elevated in NASH patients, indicating a putative suppression effect on the genes involved in redox reactions. Additionally, the genes positively regulated by lnc18q22.2 were enriched with pathways in translational elongation. Our data show that lnc18q22.2 is predominantly present in the cytoplasm of HepG2 cells. Cytoplasmic lncRNAs have been described that facilitate mRNA decay, stabilize mRNAs, and promote or inhibit the translation of target mRNAs through extended base-pairing.^(41–43) It is possible that lnc18q22.2 regulates the translation of target mRNAs, but this hypothesis needs further experimental validation.

One of the most enriched pathways we observed is the regulation of cell death and apoptosis, which is consistent with the observed cell viability phenotype after lnc18q22.2 knockdown. Hepatocyte apoptosis is a major feature in NASH. To execute both intrinsic (by activating death receptors) and extrinsic apoptosis (by intracellular stress inducers), liver cells depend heavily on mitochondrial outer membrane permeabilization and its regulation by Bcl-2 proteins.^(44–46) Several anti-apoptotic

genes⁽⁴⁷⁾ were down-regulated after lnc18q22.2 knockdown, including *MCL1*, *BCL2L1*, *BCL2L2*, *BFAR*, *CARD10*, *IGFIR* and *MKL*. In line with it, we observed a significant reduction of intact PARP-1 and a significant increase in the number of necrotic nuclei after lnc18q22.2 knockdown. However, we did not detect the appearance of cleaved PARP-1 and/or an increase in apoptotic nuclei. These results pointed to a necrosis-like phenotype although we cannot exclude that this necrosis was preceded by apoptosis. Similarly, the network analysis showed that the increased expression of lnc18q22.2 in NASH livers was co-expressed with the genes involved in the negative regulation of apoptosis. In contrast, cell death and fibrosis are increased in NASH patients. Our results suggest that elevated lnc18q22.2 expression might be a protective mechanism against liver damage by inhibiting apoptosis of liver cells.⁽⁴⁸⁾ However, the lnc18q22.2 's role in NASH development still needs to be studied *in vivo* and the primary targets of lnc18q22.2 remain unclear. We do not yet know whether lnc18q22.2 affects cell viability directly or through other pathways such as redox and fatty acid metabolic processes or through translation of target and apoptotic genes. In this study, we performed a cross-sectional transcriptome analysis. To further understand the role of lnc18q22.2 in NASH progression, a longitudinal study should be performed.

In conclusion, our study has identified a liver-specific lncRNA, lnc18q22.2, with elevated expression in the liver of NASH patients. Lnc18q22.2 played a crucial role in hepatocyte viability and is likely to play a regulatory role by inhibiting hepatocyte apoptosis and necrosis. The pathway analysis in lnc18q22.2 knockdown cells implicated several biological mechanisms that are also involved in NASH. However, these potential mechanisms need to be studied and validated *in vivo*.

Acknowledgements

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Accepted Article

References

1. Marchesini G, Brizi M, Bianchi G, et al. Nonalcoholic Fatty Liver Disease: A Feature of the Metabolic Syndrome. *Diabetes*. 2001;50(8):1844-1850.
2. Feldstein AE, Canbay A, Angulo P, et al. Hepatocyte apoptosis and Fas expression are prominent features of human nonalcoholic steatohepatitis. *Gastroenterology*. 2003;125(2):437-443.
3. Ekstedt M, Franzén LE, Mathiesen UL, et al. Long-term follow-up of patients with NAFLD and elevated liver enzymes. *Hepatology*. 2006;44(4):865-873.
4. Bradford V, Dillon J, Miller M. Lifestyle interventions for the treatment of non-alcoholic fatty liver disease. *Hepat Med*. 2014;6:1-10.
5. Sreekumar R, Rosado B, Rasmussen D, Charlton M. Hepatic gene expression in histologically progressive nonalcoholic steatohepatitis. *Hepatology*. 2003;38(1):244-251.
6. Younossi ZM, Gorreta F, Ong JP, et al. Hepatic gene expression in patients with obesity-related non-alcoholic steatohepatitis. *Liver Int*. 2005;25(4):760-771.
7. Wolfs MGM, Gruben N, Rensen SS, et al. Determining the association between adipokine expression in multiple tissues and phenotypic features of non-alcoholic fatty liver disease in obesity. *Nutr Diabetes*. 2015;5(2):e146.
8. Wang Y, Tuin S Van Der, Tjeerdema N, et al. Plasma cholesteryl ester transfer protein is predominantly derived from Kupffer cells. *Hepatology*. 2015;[Epub ahead of print]:2-49.
9. Derrien T, Johnson R, Bussotti G, et al. The GENCODE v7 catalogue of human long non-coding RNAs : Analysis of their structure , evolution and expression. 2012:1775-1789.
10. Zhang K, Shi ZM, Chang YN, Hu ZM, Qi HX, Hong W. The ways of action of long non-coding RNAs in cytoplasm and nucleus. *Gene*. 2014;547(1):1-9.
11. Takahashi K, Yan I, Haga H, Patel T. Long noncoding RNA in liver diseases. *Hepatology*. 2014;60(2):744-753.
12. Li P, Ruan X, Yang L, et al. A liver-enriched long non-coding RNA, lncLSTR, regulates systemic lipid metabolism in mice. *Cell Metab*. 2015;21(3):455-467.
13. Halley P, Kadakkuzha B, Faghihi M, et al. Regulation of the apolipoprotein gene cluster by a long noncoding RNA. *Cell Rep*. 2014;6(1):222-230.
14. Braconi C, Kogure T, Valeri N, et al. microRNA-29 can regulate expression of the long non-coding RNA gene MEG3 in hepatocellular cancer. *Oncogene*. 2011;30(47):4750-4756.
15. Lai M, Yang Z, Zhou L, et al. Long non-coding RNA MALAT-1 overexpression predicts tumor recurrence of hepatocellular carcinoma after liver transplantation. *Med Oncol*. 2012;29(3):1810-1816.
16. Sun C, Liu X, Yi Z, et al. Genome-wide analysis of long noncoding RNA expression profiles in patients with non-alcoholic fatty liver disease. *IUBMB Life*. 2015;67(11):847-852.
17. Afonso MB, Rodrigues PM, Simão AL, Castro RE. Circulating microRNAs as Potential Biomarkers in Non-Alcoholic Fatty Liver Disease and Hepatocellular Carcinoma. *J Clin Med*. 2016;5(3).

18. Brunt EM, Janney CG, Di Bisceglie AM, Neuschwander-Tetri BA, Bacon BR. Nonalcoholic steatohepatitis: A proposal for grading and staging the histological lesions. *Am J Gastroenterol*. 1999;94(9):2467-2474.
19. Kleiner DE, Brunt EM, Van Natta M, et al. Design and validation of a histological scoring system for nonalcoholic fatty liver disease. *Hepatology*. 2005;41(6):1313-1321.
20. Fu J, Wolfs MGM, Deelen P, et al. Unraveling the Regulatory Mechanisms Underlying Tissue-Dependent Genetic Variation of Gene Expression. *PLoS Genet*. 2012;8(1):e1002431.
21. Starmann J, Fälth M, Spindelböck W, et al. Gene Expression Profiling Unravels Cancer-Related Hepatic Molecular Signatures in Steatohepatitis but Not in Steatosis. *PLoS One*. 2012;7(10).
22. Xie H, Ma H, Zhou D. Plasma HULC as a promising novel biomarker for the detection of hepatocellular carcinoma. *Biomed Res Int*. 2013;2013.
23. Deelen P, Zhernakova D, de Haan M, et al. Calling genotypes from public RNA-sequencing data enables identification of genetic variants that affect gene-expression levels. *bioRxiv*. 2014:007633.
24. Robinson MD, McCarthy DJ, Smyth GK. edgeR: a Bioconductor package for differential expression analysis of digital gene expression data. *Bioinformatics*. 2010;26(1):139-140.
25. Schippers IJ, Moshage H, Roelofsen H, et al. Immortalized human hepatocytes as a tool for the study of hepatocytic (de-)differentiation. *Cell Biol Toxicol*. 1997;13(4-5):375-386.
26. Benjamini Y, Hochberg Y. Controlling the False Discovery Rate: A Practical and Powerful Approach to Multiple Testing. *J R Stat Soc Ser B*. 1995;57(1):289-300.
27. Huang DW, Lempicki R a, Sherman BT. Systematic and integrative analysis of large gene lists using DAVID bioinformatics resources. *Nat Protoc*. 2009;4(1):44-57.
28. Moffat J, Grueneberg DA, Yang X, et al. A Lentiviral RNAi Library for Human and Mouse Genes Applied to an Arrayed Viral High-Content Screen. *Cell*. 2006;124(6):1283-1298.
29. Conde de la Rosa L, Schoemaker MH, Vrenken TE, et al. Superoxide anions and hydrogen peroxide induce hepatocyte death by different mechanisms: Involvement of JNK and ERK MAP kinases. *J Hepatol*. 2006;44(5):918-929.
30. Ribble D, Goldstein NB, Norris D a, Shellman YG. A simple technique for quantifying apoptosis in 96-well plates. *BMC Biotechnol*. 2005;5:12.
31. Dobin A, Davis CA, Schlesinger F, et al. STAR: Ultrafast universal RNA-seq aligner. *Bioinformatics*. 2013;29(1):15-21.
32. Love MI, Huber W, Anders S. Moderated estimation of fold change and dispersion for RNA-seq data with DESeq2. *Genome Biol*. 2014;15(12):1-34.
33. Cabili M, Trapnell C, Goff L, et al. Integrative annotation of human large intergenic noncoding RNAs reveals global properties and specific subclasses. *Genes Dev*. 2011;25(18):1915-1927.
34. Kong L, Zhang Y, Ye ZQ, et al. CPC: Assess the protein-coding potential of transcripts using sequence features and support vector machine. *Nucleic Acids Res*. 2007;35(SUPPL.2).
35. Wang L, Park HJ, Dasari S, Wang S, Kocher JP, Li W. CPAT: Coding-potential assessment

- tool using an alignment-free logistic regression model. *Nucleic Acids Res.* 2013;41(6).
36. Lin H-Y, Lai R-H, Lin S-T, et al. Suppressor of cytokine signaling 6 (SOCS6) promotes mitochondrial fission via regulating DRP1 translocation. *Cell Death Differ.* 2012;20(1):139-153.
 37. Ling H, Fabbri M, Calin G a. MicroRNAs and other non-coding RNAs as targets for anticancer drug development. *Nat Rev Drug Discov.* 2013;12(11):847-865.
 38. Fatima R, Akhade VS, Pal D, Rao SM. Long noncoding RNAs in development and cancer: potential biomarkers and therapeutic targets. *Mol Cell Ther.* 2015;3:5.
 39. Rensen SS, Bieghs V, Xanthoulea S, et al. Neutrophil-Derived Myeloperoxidase Aggravates Non-Alcoholic Steatohepatitis in Low-Density Lipoprotein Receptor-Deficient Mice. *PLoS One.* 2012;7(12).
 40. Rensen SS, Slaats Y, Nijhuis J, et al. Increased hepatic myeloperoxidase activity in obese subjects with nonalcoholic steatohepatitis. *Am J Pathol.* 2009;175(4):1473-1482.
 41. Carrieri C, Cimatti L, Biagioli M, et al. Long non-coding antisense RNA controls Uchl1 translation through an embedded SINEB2 repeat. *Nature.* 2012;491(7424):454-457.
 42. Gong C, Maquat LE. lncRNAs transactivate STAU1-mediated mRNA decay by duplexing with 3' UTRs via Alu elements. *Nature.* 2011;470(7333):284-288.
 43. Liu X, Li D, Zhang W, Guo M, Zhan Q. Long non-coding RNA gadd7 interacts with TDP-43 and regulates Cdk6 mRNA decay. *EMBO J.* 2012;31(23):4415-4427.
 44. Vick B, Weber A, Urbanik T, et al. Knockout of myeloid cell leukemia-1 induces liver damage and increases apoptosis susceptibility of murine hepatocytes. *Hepatology.* 2009;49(2):627-636.
 45. Takehara T, Tatsumi T, Suzuki T, et al. Hepatocyte-specific disruption of Bcl-x L leads to continuous hepatocyte apoptosis and liver fibrotic responses. *Gastroenterology.* 2004;127(4):1189-1197.
 46. Hikita H, Takehara T, Shimizu S, et al. Mcl-1 and Bcl-xL cooperatively maintain integrity of hepatocytes in developing and adult murine liver. *Hepatology.* 2009;50(4):1217-1226.
 47. Jourdan M, Reme T, Goldschmidt H, et al. Gene expression of anti- and pro-apoptotic proteins in malignant and normal plasma cells. *Br J Haematol.* 2009;145(1):45-58.
 48. Reeves HL, Friedman SL. Activation of hepatic stellate cells--a key issue in liver fibrosis. *Front Biosci.* 2002;7:d808-d826.

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Figures and Figure Legends

A liver-specific long non-coding RNA with a role in cell viability is elevated in human non-alcoholic steatohepatitis

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Figure 1. Overview of the current study.

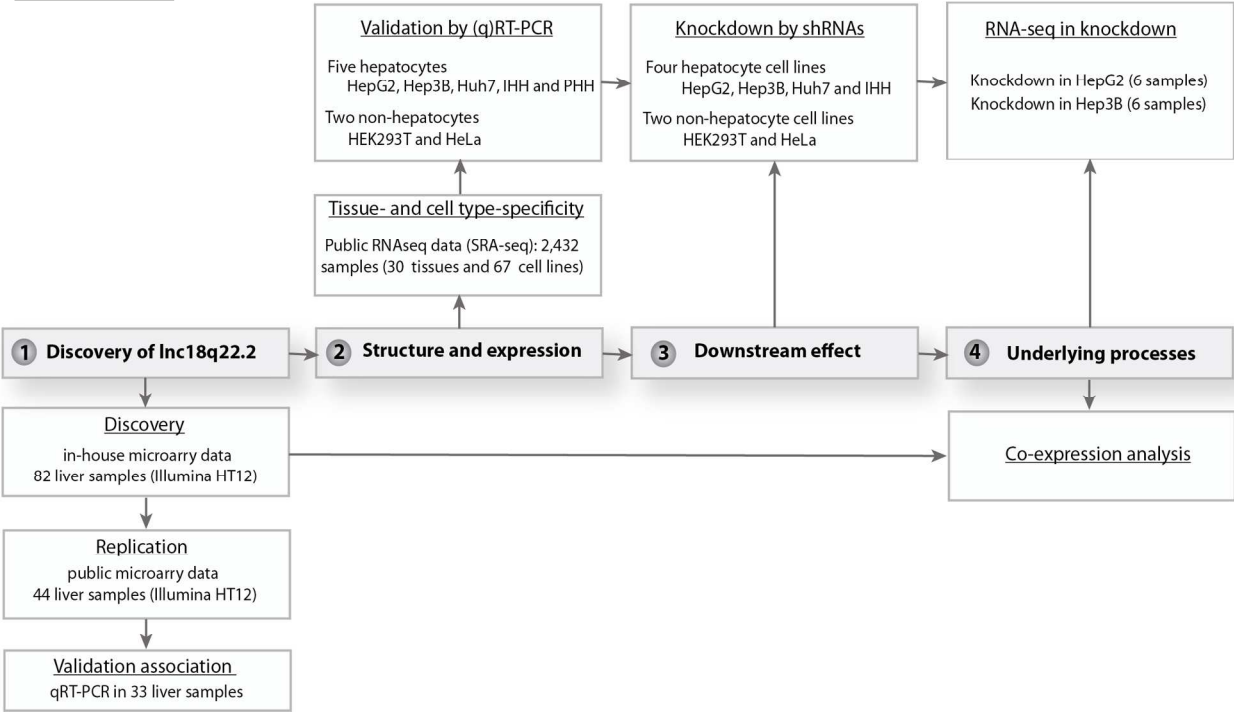


Figure 2. Association of lnc18q22.2 expression with different degrees of NASH. Y-axis represents normalized probe expression of lnc18q22.2 from microarray data of 82 severely obese individuals. X-axes represent severity of the disease represented by different parameters: NASH grade, NAS score and lobular inflammation. Spearman's rank correlation analyses are reported at FDR<0.05 significance.

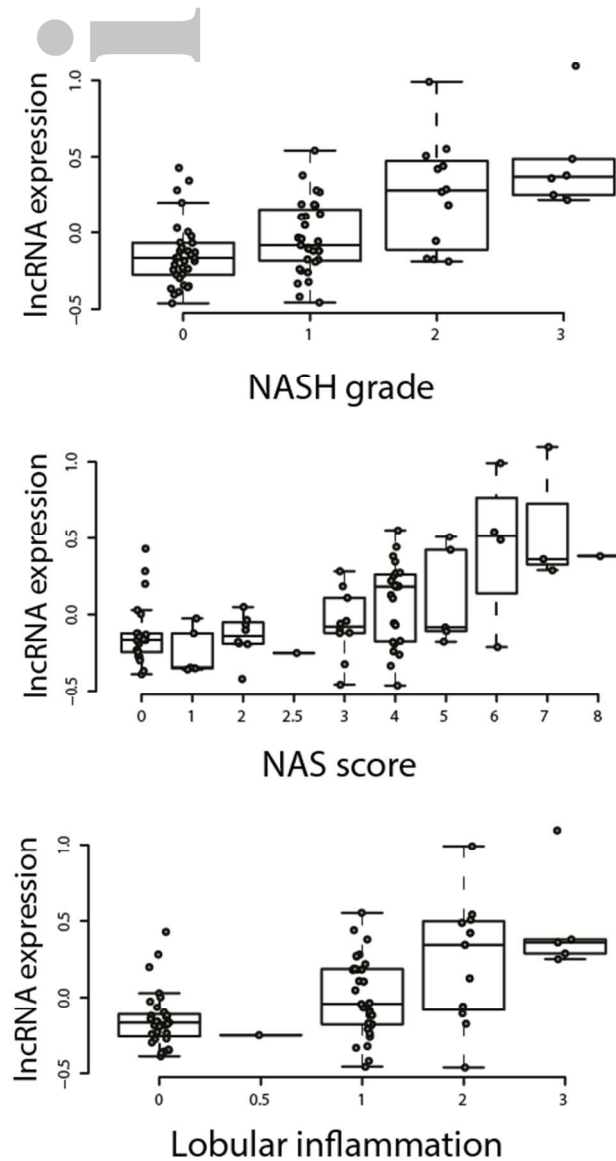


Figure 3. Lnc18q22.2 transcript structure, abundance and cellular location. (A) Lnc18q22.2 maps to chromosome 18q22.2 and contains two exons. Compared to the GENCODE annotation, the liver panel of Human Body Map suggested an elongated exon 2, which is shown in the white box. The average intensity of RNA-seq reads of 64 liver samples from the SRA database is plotted on this region, which confirms the extended exon 2. The physical locations of microarray probe, (q)RT-PCR primers for structure and expression validation and two shRNAs for Lnc18q22.2 depletion are indicated. (B) Experimental validation of Lnc18q22.2 gene structure using qRT-PCR and RT-PCR. Product 1 corresponds to qRT-PCR product. Products 2 and 3 correspond to RT-PCR products and were sequenced to validate the larger exon 2. S1= Sample1, S2 = Sample2, Blank = Non-template control. (C) The average expression of Lnc18q22.2 in 30 different tissues and 67 different cell lines (SRA dataset). (D) Validation of Lnc18q22.2 expression in three hepatocellular carcinoma derived cells lines (HepG2, Hep3B and Huh7), two non-tumorous cell lines (IHH [immortalized human hepatocytes] and PHH [primary human hepatocytes]) and two non-hepatocytes cell lines (HEK293T and HeLa) by qRT-PCR. Y-axis represents Lnc18q22.2 expression relative to beta-actin, GAPDH and HPRT (mean \pm SEM). (E) Cellular localization of Lnc18q22.2 by fractionating the HepG2 cells into cytoplasmic and nuclear fractions and performing qRT-PCR. To validate the isolation of the nuclear and cytoplasmic fractions, the enrichment of nuclear (MALAT, NEAT) and cytoplasmic (DANCR, OIPS-AS) abundance was analyzed by qRT-PCR. The Log2 ratio between the cytoplasmic and nuclear fraction are shown on the Y axis; mean \pm SEM. 18S and U3 were used for normalization of cytoplasmic and nuclear fractions, respectively.

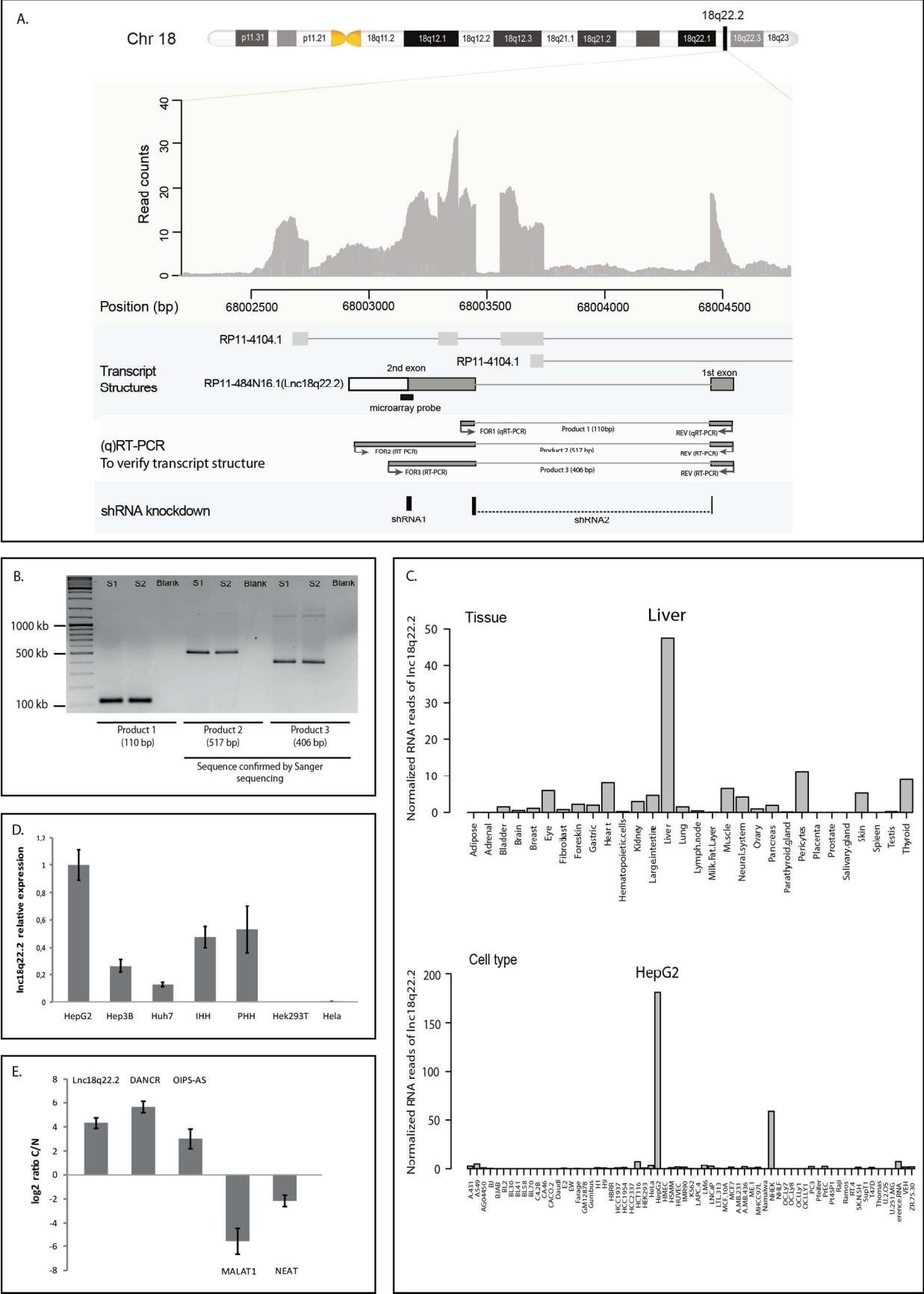
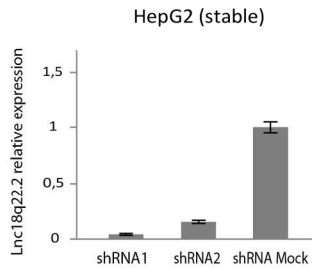


Figure 4. Silencing of lnc18q22.2 expression *in vitro* and phenotypic characteristics of the cells. (A) qRT-PCR of lnc18q22.2 expression after shRNA-mediated knockdown in three hepatocellular carcinoma cell lines (HepG2, Hep3B and Huh7) and one non-tumorous cell line, IHH. Values are shown with shRNA mock mediated lnc18q22.2 expression set to 1; mean \pm SEM. (B) Cell proliferation after shRNA-mediated depletion of lnc18q22.2. Cell counts on surviving cells were obtained after 3 (time point 1), 6 (time point 2) and 9 days (time point 3) of puromycin selection. At baseline (0), 200,000 cells were seeded per well for all cells.

A.



B.

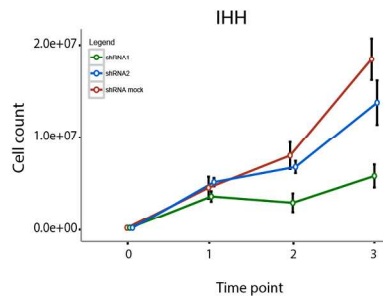
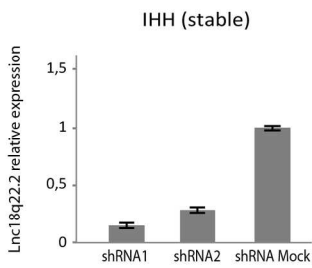
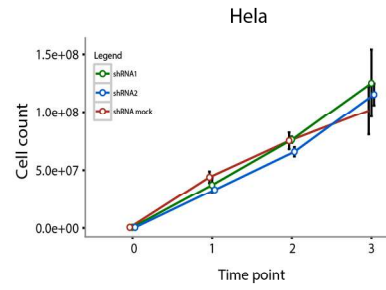
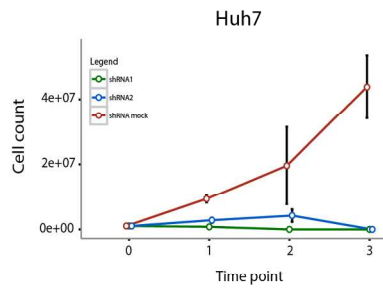
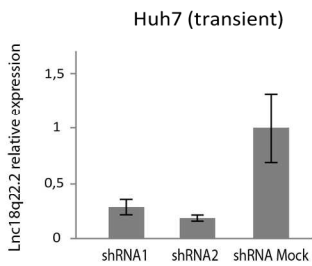
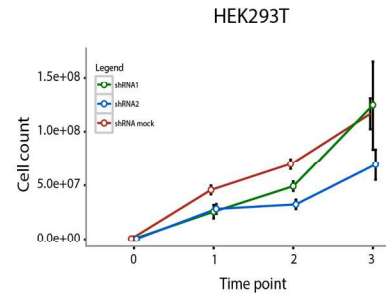
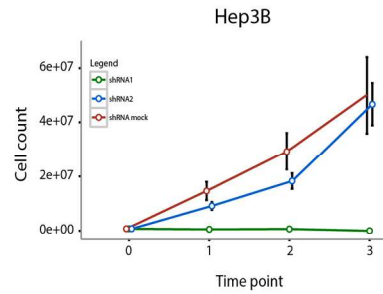
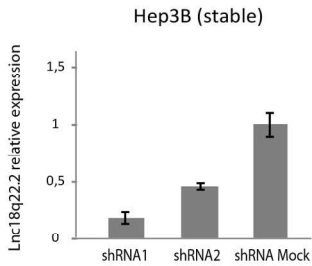
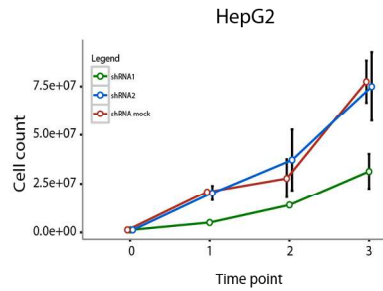


Figure 5. Characterization of the cell death phenotype in Huh7 and IHH. (A) The effect of lnc18q22.2 knockdown on apoptosis. The western plots of protein PARP-1 (the marker for apoptosis) in lnc18q22.2 known-down are shown for Huh7 and IHH cell lines (day 3 after viral transduction). The size of intact PARP-1 (Full PARP) is at 116 kDa and the size of the cleaved PARP-1 products (Cleaved PARP) is at 89 kDa. The reduction of full PARP-1 protein of three replicates is quantified and presented in the bar plot (mean \pm SEM). Positive control for apoptosis was cells treated with cisplatin (10 μ g/ml media for 24h and 48h in IHH and Huh7, respectively). Negative control was cells in normal media without any treatment. (B) The effect of lnc18q22.2 knockdown on necrosis. Cell nuclei were stained for presence of necrosis using Sytox green on day 3 after viral transduction and then fluorescent microscopy pictures were taken. Cell nuclei stained in green represent necrotic cells. Positive control for necrosis were cells treated with H₂O₂ (5 μ M for 2h and 5h in Huh7 and IHH, respectively). Negative control was cells in normal media without any treatment. Size bar = 400 μ m.

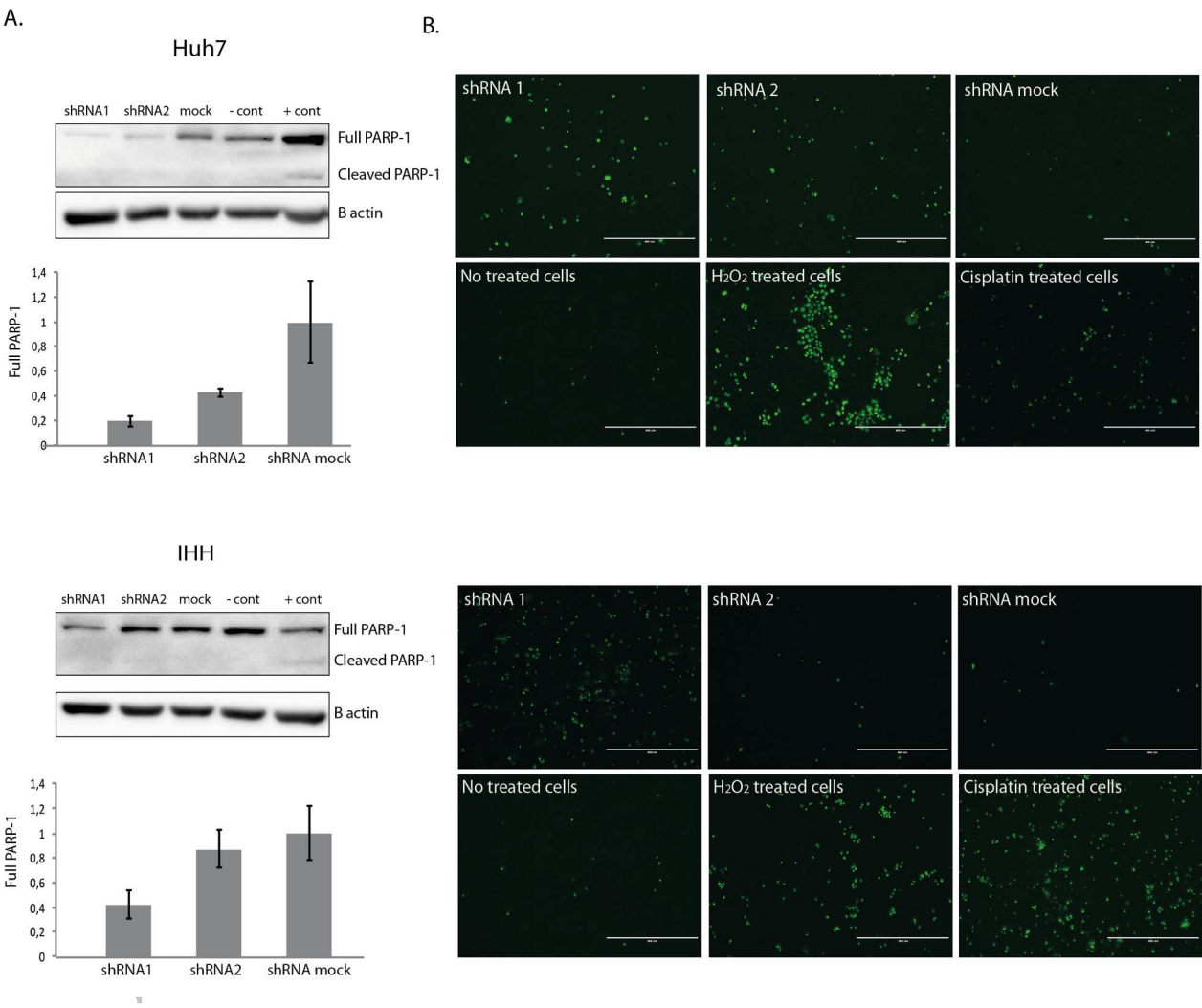
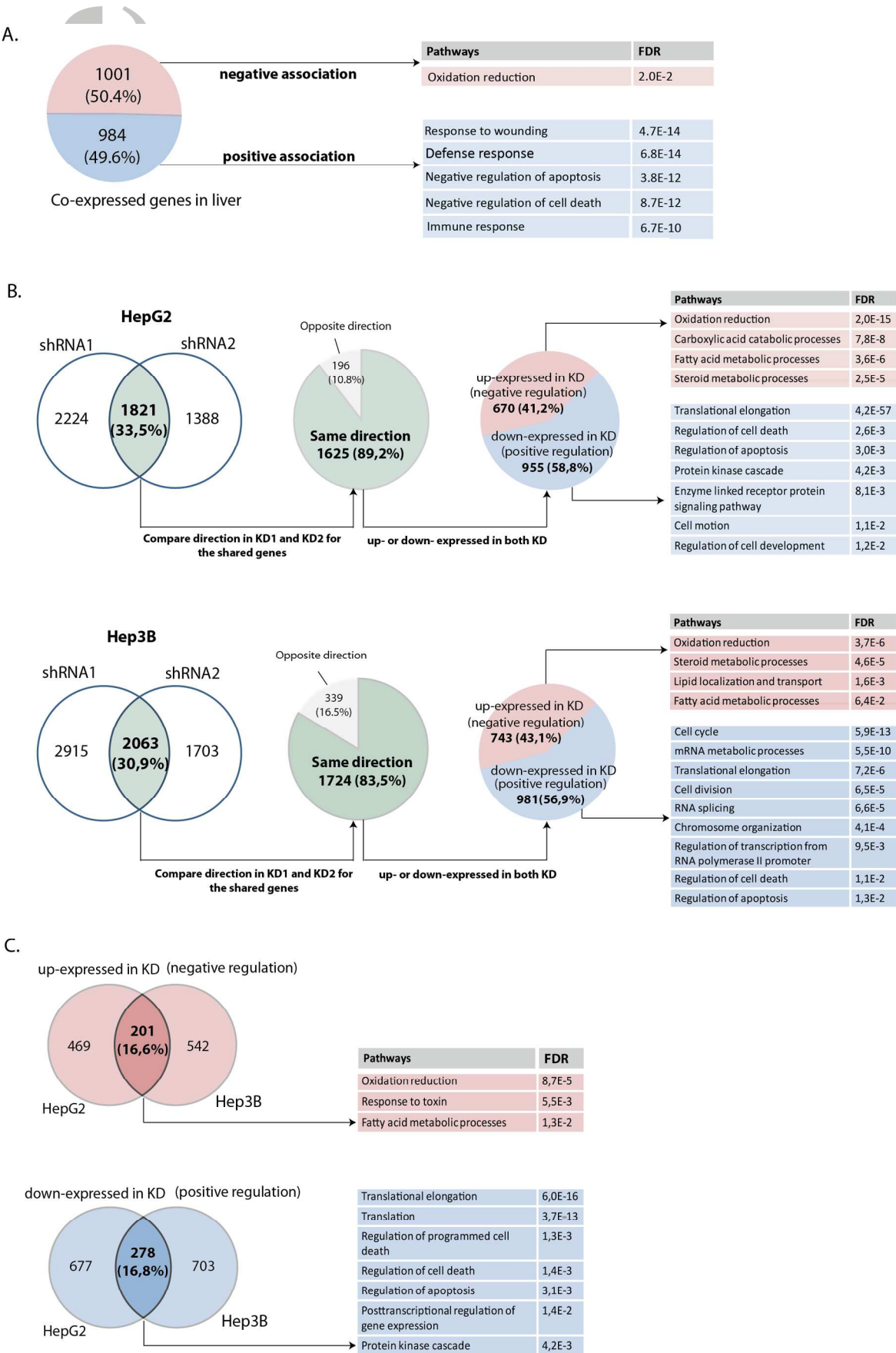


Figure 6. GO pathway enrichment analysis. (A) Genome-wide co-expression analysis from the human microarray data detected potential downstream genes and molecular processes associated to lnc18q22.2. Genes were split in two groups: those positively correlated with lnc18q22.2 and those negatively correlated with lnc18q22.2. All co-expressed genes were significant at $FDR < 0.05$. (B) Gene enrichment analysis on differentially expressed genes from RNA-seq in HepG2 and Hep3B cells after lnc18q22.2 depletion. Per cell line, the Venn diagram shows the number of shared genes affected by both shRNA1 and shRNA2. The pie chart indicates the total number of genes affected in the same direction. The pathway analysis was then confined to the genes that were negatively regulated or positively regulated by lnc18q22.2, respectively. All GO biological processes at $FDR < 0.05$ are shown. (C) The pathway analysis for the upregulated and downregulated genes shared in both HepG2 and Hep3B cells. All pathways were significant at $FDR < 0.05$.



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Supporting Information

A liver-specific long non-coding RNA with a role in cell viability is elevated in human non-alcoholic steatohepatitis

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Online Methods:

Liver biopsies collection and processing

Liver wedge biopsies were removed immediately after the abdomen was opened and before the intestines or liver were manipulated. Fragments 0.5×0.5 cm in size were dissected from liver tissue. For RNA extraction, fragments were cut into smaller pieces, snap-frozen in liquid nitrogen, and stored at -80°C . For cryosectioning, tissue fragments of similar size were immersed in Tissue-Tek optimal cutting temperature compound (Sakura Finetek Europe, Zoeterwoude, the Netherlands) and then mounted onto a piece of cork for freezing in pre-chilled isopentane on dry ice. After cryoembedding, samples were stored at -80°C . For formalin fixation, tissue fragments were immersed in formalin solution overnight at 4°C and then dehydrated through a graded ethanol series before paraffin embedding.

Liver-specific expression of lnc18q22.2 from public dataset

To assess expression of lnc18q22.2 in a wide-range of tissue types and cell lines, we used 1,262 raw human RNAseq datasets from different tissue types and cell lines. This dataset was described in our previous paper ⁽¹⁾. In brief, we downloaded all raw sequencing data from 9,527 public human RNAseq runs. The RNAseq reads were mapped to human genome. After quality check, a total of 1,262 high-quality RNAseq datasets, with an average of 22 million reads per sample, were included for further analysis that cover 30 tissue types and 67 cell types. Gene expression levels were quantified using HTSeq-count 0.5.4.

Lnc18q22.2 abundance in plasma and whole blood

To evaluate the potential of lnc18q22.2 as a non-invasive biomarker, we measured the abundance of lnc18q22.2 in plasma and whole blood. For plasma collection, whole blood from four healthy volunteers and four NASH patients (BMI>40; NAS score >7) was collected in EDTA tubes and centrifuged at 1,200

g for 10 min at 4°C to gather the blood cells. Supernatants were transferred to microcentrifuge tubes and centrifuged at 12,000 g for 10 min at 4°C to remove cellular components. Plasma was then carefully collected, and total RNA was extracted from 500 µl plasma using the mirVana PARIS Kit (Foster City, CA, USA) according to the manufacturer's instructions. We used two lncRNAs (*MALAT1* and *NEAT*) known to be present in plasma as positive controls of circulating non-coding RNA biomarkers. To evaluate the abundance of lnc18q22.2 in whole blood, RNA sequencing data from 1,141 whole blood samples was downloaded through the SRA. The total number of reads aligned to lnc18q22.2 region was assessed.

Validating the transcript structure of lnc18q22.2

To assess the transcript structure of lnc18q22.2 in the liver, RT-PCR was run on HepG2 samples using two additional primers, PCR2_FOR (TGCCAGCTGTCAATGAACCTA) and PCR3_FOR (TATGAGTGGCTACCTGCCTC), paired with the qPCR1_REV primer described below. PCR products were Sanger sequenced at GATC-Biotech (<https://www.gatc-biotech.com/en/home.html>) to confirm the presence of the longer exon 2 where the initial microarray probe was located.

Validating the association of expression

To validate the correlation results from the microarray analysis, we performed a validation experiment measuring lnc18q22.2 expression using qRT-PCR in 33 randomly selected liver samples from the discovery cohort, including normal (n=8), NAFLD (n=8) and NASH (n=17) samples. Measurements were performed in triplicate, and a standard curve was used to compare absolute transcript quantities.

lnc18q22.2 primers for qRT-PCR were designed based on Human Body Map and GENCODE annotations using the Primer 3 program (http://biotools.umassmed.edu/bioapps/primer3_www.cgi).

Primers were obtained from Biolegio (Nijmegen, the Netherlands) with the following sequences in the 5'

to 3' direction: qPCR1_FOR (GGAGGCTGTTGACAGGCAATG), qPCR1_REV (GACTGCAACTTAAGCTATCTGG). We measured the expression of lnc18q22.2 relative to the housekeeping gene beta actin using the primers described before.⁽²⁾ Expression was then correlated to the intensity of the corresponding microarray probe and to the NASH phenotype.

Validating hepatocyte-specific expression of lnc18q22.2

We tested the expression of lnc18q22.2 in five hepatocyte cell lines (hepatocellular carcinoma [HCC]-derived HepG2 [ATCC, HB-8065], Hep3B [ATCC, HB-8064], Huh7 [JCRB Cell Bank, JCRB0403]; the non-tumorous cell line IHH⁽³⁾ and in RNAs isolated from 3 different batches of primary human hepatocytes (PHH) [Tebu-Bio, Heerhugowaard, The Netherlands]. For comparison, two additional control cell lines (HeLa [ATCC, CCL-2] and Hek293T [ATCC, CRL-3216]) were analyzed. We measured lnc18q22.2 expression in these cells using qRT-PCR with the previously described primers (qPCR_FOR and qPCR_REV). Cells were cultured in a humidified incubator with 95% CO₂ at 37°C. The cells were grown in Dulbecco's Modified Eagle Medium (Gibco BRL, Grand Island, NY, USA) supplemented with 10% fetal bovine serum (FBS, Gibco BRL), 100 U/ml penicillin, and 100 mg/ml streptomycin (Gibco BRL). IHH cells were cultured in complete Williams' medium E (2 mmol/L glutamine, 20 mU/ml insulin, 50 nmol/L dexamethasone, 100 U/ml penicillin and 100 mg/ml streptomycin) supplemented with 10% FBS.

Determination of the cellular localization of lnc18q22.2

Nuclear and cytoplasmic fractions were separated from HepG2 cells by adding 200 µL lysis buffer (140 mM NaCl, 1.5 mM MgCl₂, 10 mM Tris-HCl pH 8.0, 1 mM DTT, and 0.5% Nonidet P-40) to pellets of ~4 million cells, followed by 5 min incubation on ice and centrifugation at 1000 g for 3 min at 4°C. (4) The supernatant was collected as the cytoplasmic fraction. The pellet containing the nuclei was washed

twice with lysis buffer. 1 ml TriPure reagent (Roche) was added to the cytoplasmic fraction (~200 μ L), nuclear pellet, and total cell pellet, and RNA was isolated as described before. Nuclear genes were normalized to U3 RNA and cytoplasmic genes were normalized to 18S RNA. As controls for the fractionation, we used known nuclear and cytoplasmic lncRNAs: *MALAT1* and *NEAT* for the nuclear fraction and *DANCR* and *OIP5-AS* for the cytoplasmic fraction (primer sequences were taken from ⁽⁴⁾). The log₂ ratio of cytoplasmic and nuclear fractions were calculated and plotted for each gene.

Design of shRNAs

To knockdown lnc18q22.2, we designed two short hairpin RNA (shRNA) cassettes for cloning into the lenti-viral pLKO TRC vector. The cassettes were specifically designed using the full lnc18q22.2 sequence and targeted only lnc18q22.2 and not the overlapping transcript. For this purpose, we used the siRNA selection program (<http://sirna.wi.mit.edu/>). Cassette 1 was created by annealing of shRNA1_FOR:

CCGGAGGTCGTGGTGAGAAGCAAATCTCGAGATTTGCTTCTCACCACGACCTTTTTTG; and

shRNA1_REV:

AATTCAAAAAGGTCGTGGTGAGAAGCAAATCTCGAGATTTGCTTCTCACCACGACCT.

Cassette 2 was created by annealing of shRNA2_FOR:

CCGGGACAGGCAATGATTTCTGTAACCTCGAGTTACAGAAATCATTGCCTGTCTTTTTTG; and

shRNA2_REV:

AATTCAAAAAGACAGGCAATGATTTCTGTAACCTCGAGTTACAGAAATCATTGCCTGTC. A

mock shRNA hairpin was created based on oligos shRNA_mock_FOR :

CCGGTTCTCCGAACGTGTCACGTGTCTCGAGACACGTGACACGTTCGGAGAATTTTTTG; and

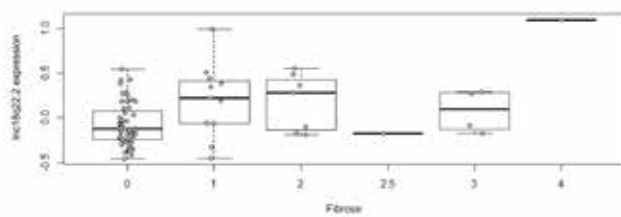
shRNA_mock_REV:

AATTCAAAAATTCTCCGAACGTGTCACGTGTCTCGAGACACGTGACACGTTCGGAGAA.

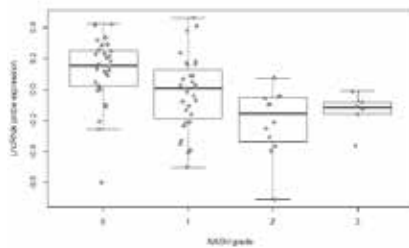
Supporting figures:

Figure S1. lncRNAs from the microarray data of 82 severely obese individuals correlate with different NASH phenotypes. (A) lnc18q22.2 correlated with the grade of fibrosis ($r = 0.35$, $P = 0.0018$). (B) lncRNA *MAPKAPK5-AS1* correlated with NASH grade ($r = 0.51$, $P = 8.11 \times 10^{-7}$). (C) lncRNA *RP4-763G1.2* was correlated with NAS score ($r = -0.48$, $P = 5.80 \times 10^{-6}$) and ASAT ($r = -0.49$, $P = 5.08 \times 10^{-6}$). Correlations in B and C were significant at $FDR < 0.05$, but not significant after correction for age, gender and BMI. Y-axis represents normalized probe expression for lncRNAs; X-axis represents severity of the disease indicated by different measures of disease severity. ASAT = aspartate transaminase.

A.



B.



C.

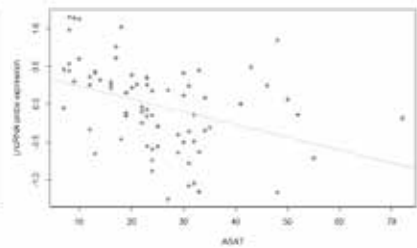
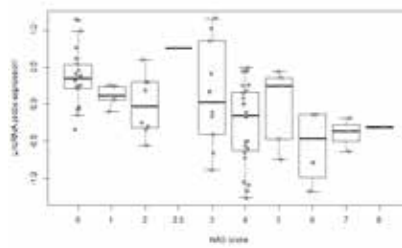


Figure S2. Replication of the correlation between lnc18q22.2 and NASH phenotypes. Expression data of 44 liver biopsies (normal n = 13; steatosis n = 19; steatohepatitis n = 12) from patients with alcoholic and non-alcoholic steatohepatitis was extracted from the GSE33814 study. Lnc18q22.2 expression was consistently positively correlated with steatosis and steatohepatitis ($r = 0.47$, $P = 0.0013$)

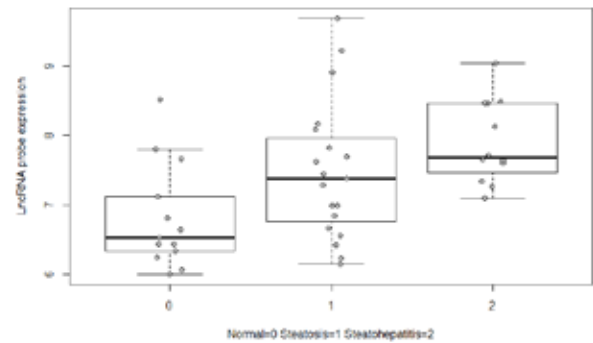


Figure S3. Overlapping and nearby genes in the locus of lnc18q22.2. Lnc18q22.2 locates at chromosome region 18q22.2, overlapping with a putative protein coding gene (PPCG) *RP11-4104.1* and a putative process transcript (PPT), but without any established protein-coding function. The closest coding gene, *SOCS6*, is also shown.

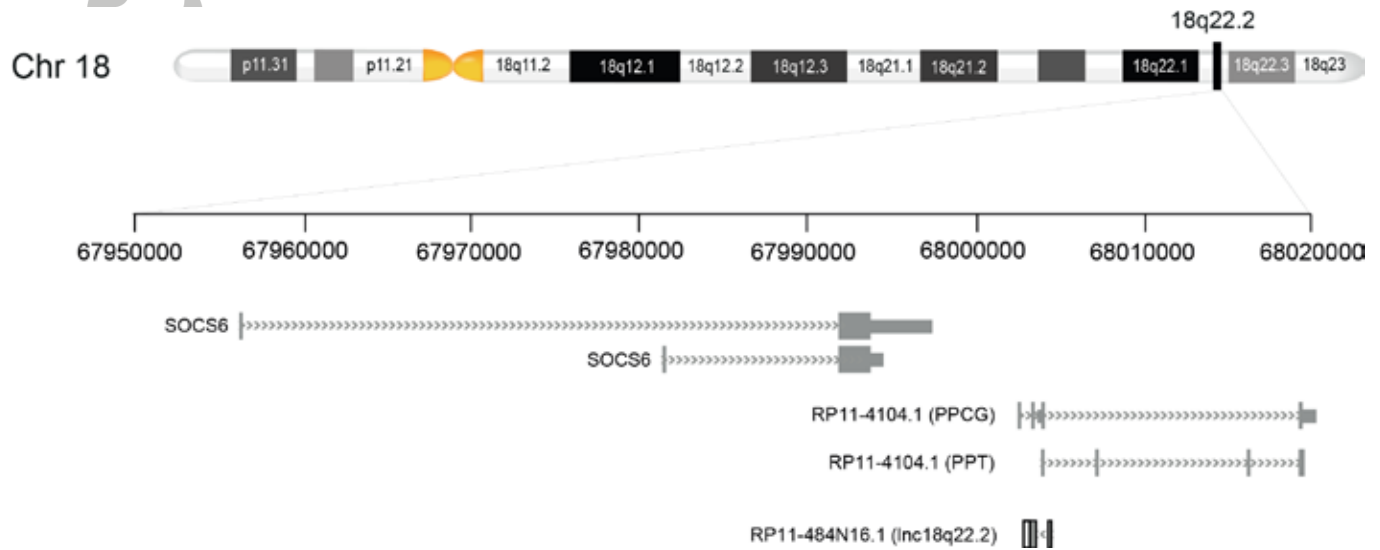
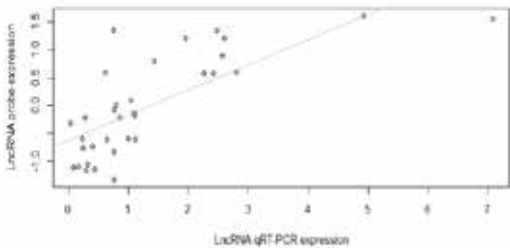


Figure S4. Validation of lnc18q22.2 microarray expression using qRT-PCR in subset of 33 human liver samples. (A) Positive correlation between the relative expression of lnc18q22.2 and the expression level of the lnc18q22.2 microarray probe ($r = 0.74$, $P = 8.50 \times 10^{-7}$) in randomly selected 33 liver samples from the discovery cohort. Y-axis represents lnc18q22.2 probe expression (normalized data); X-axis represents lnc18q22.2 relative expression measured by qRT-PCR using β -actin for normalization. (B) Spearman's rank correlation between lnc18q22.2 relative expression measured by qRT-PCR and NASH phenotypes in subset of 33 liver samples. Correlations with NASH grade ($r = 0.65$, $P = 4.55 \times 10^{-5}$), NAS score ($r = 0.58$, $P = 8.64 \times 10^{-4}$) and lobular inflammation ($r = 0.62$, $P = 1.38 \times 10^{-4}$) are presented.

A.



B.

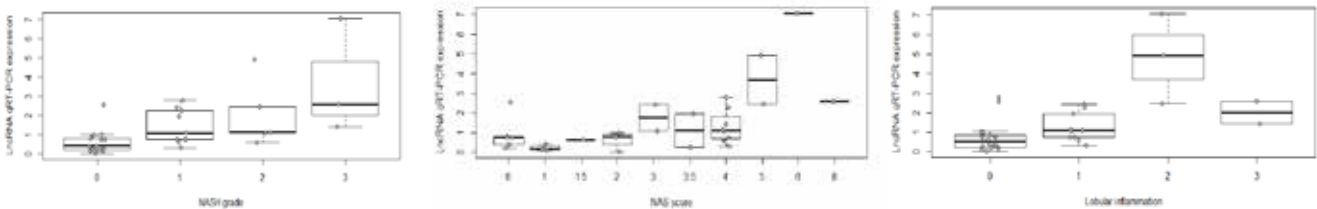
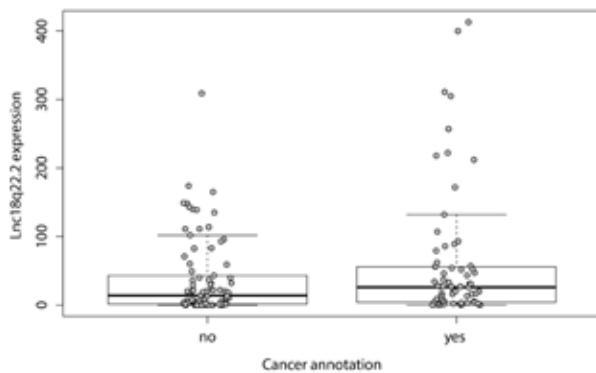


Figure S5. Expression of lnc18q22.2 and control lncRNAs in HCC. (A) No significant difference between the expression of lnc18q22.2 in healthy and HCC samples was observed ($P = 0.12$); (B) Significant difference was observed for known cancer overexpressed lncRNAs MALAT ($P = 3.00 \times 10^{-10}$) and HULC ($P = 3.64 \times 10^{-5}$). Student T-test was used to assess the significant difference in expression.

A.



B.

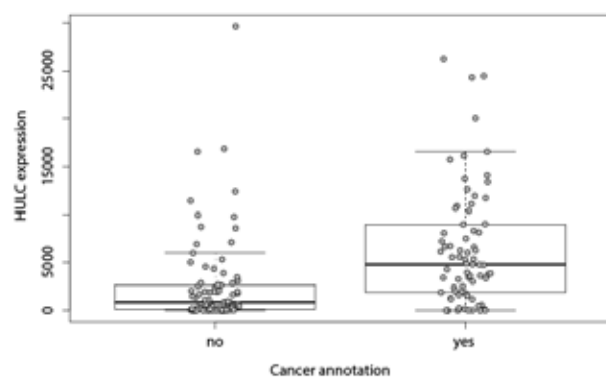
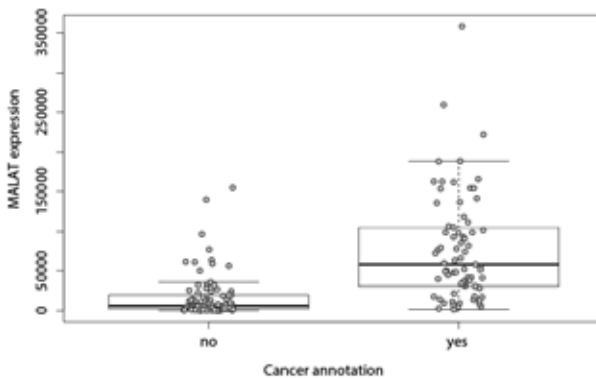
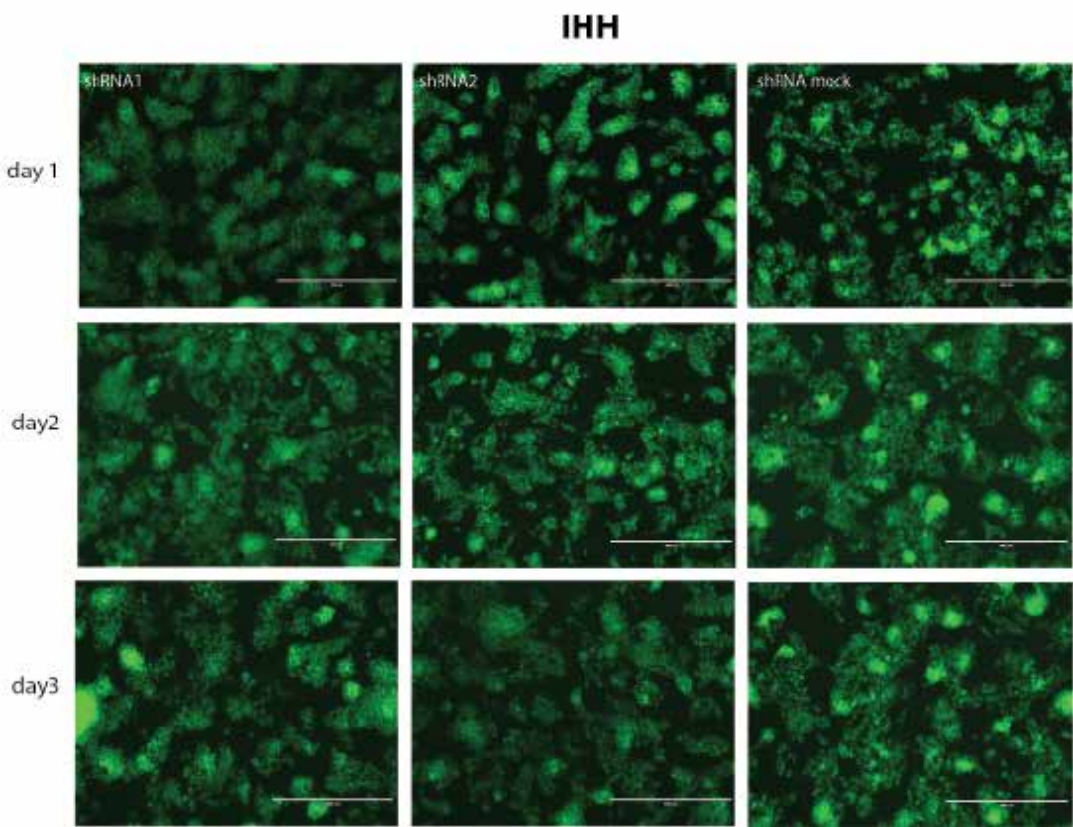
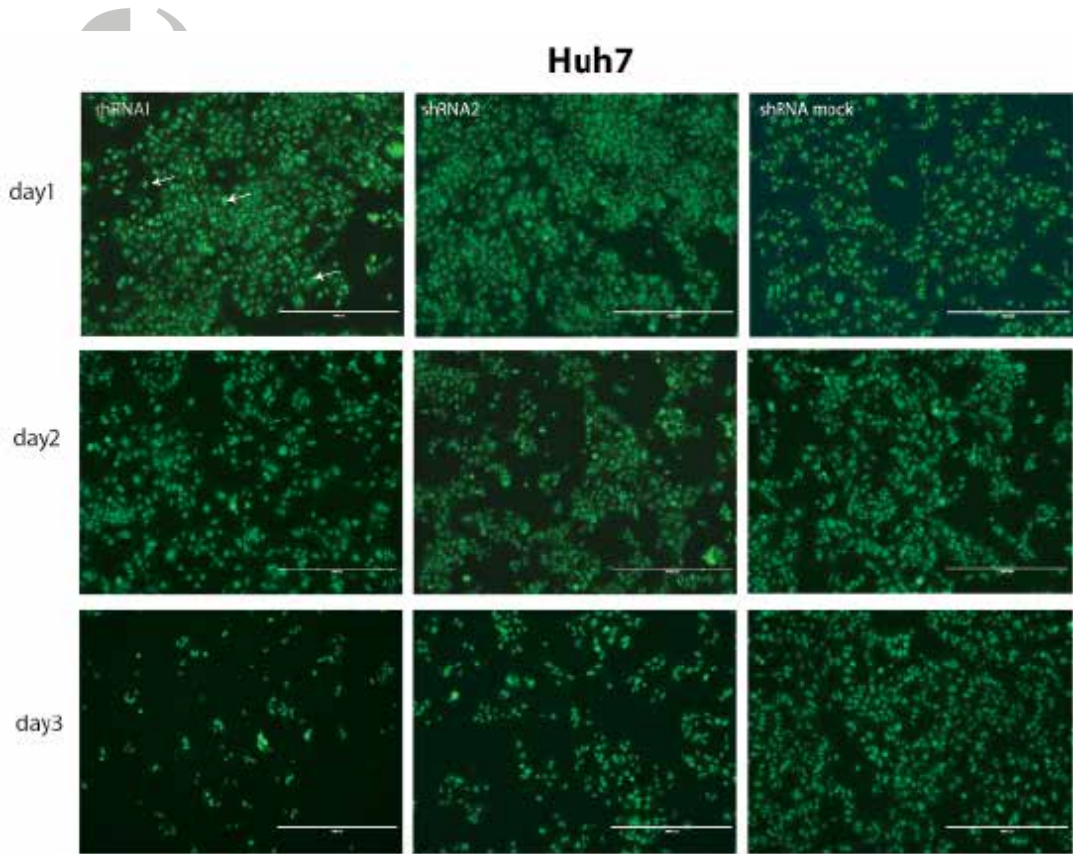


Figure S6. Characterization of the cell death phenotype in Huh7 and IHH. Cells were transduced with virus media, fluorescent microscopy pictures were taken after Acridine Orange nuclear staining in three time points (day 1-3 after virus transduction). Cell nuclei stained in light green represent apoptotic cells (white arrows). Size bar = 400µm.

Accepted Article



References for online methods

1. Deelen P, Zhernakova D, de Haan M, van der Sijde M, Bonder MJ, Karjalainen J, et al. Calling genotypes from public RNA-sequencing data enables identification of genetic variants that affect gene-expression levels. *bioRxiv* [Internet]. 2014;007633.
2. Tapia A, Salamonsen LA, Manuelpillai U, Dimitriadis E. Leukemia inhibitory factor promotes human first trimester extravillous trophoblast adhesion to extracellular matrix and secretion of tissue inhibitor of metalloproteinases-1 and -2. *Hum. Reprod.* 2008;23:1724–1732.
3. Schippers IJ, Moshage H, Roelofsen H, Müller M, Heymans HS, Ruiters M, et al. Immortalized human hepatocytes as a tool for the study of hepatocytic (de-)differentiation. *Cell Biol. Toxicol.* [Internet]. 1997;13:375–86.
4. Winkle M, van den Berg a., Tayari M, Sietzema J, Terpstra M, Kortman G, et al. Long noncoding RNAs as a novel component of the Myc transcriptional network. *FASEB J.* [Internet]. 2015;29:2338–2346.

HEP-16-0879.R1

Supporting Tables

A liver-specific long non-coding RNA with a role in cell viability is elevated in human non-alcoholic steatohepatitis

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- S1. Plasma and clinical parameters of the MORE study population
- S2. Correlation results for 3 lncRNA with NASH phenotypes
- S3. Correlation between lnc18q22.2 and 5MB window genes (microarray data, SRA data)
- S4. lnc18q22.2 and control gene expression detected by qRT-PCR in plasma of four healthy volunteers and four NASH patients
- S5. Co-expressed genes with lnc18q22.2 from microarray data
- S6. DE genes between KD1 vs Mock and KD2 vs mock in HepG2 after lnc18q22.2 knockdown
- S7. DE genes between KD1 vs Mock and KD2 vs mock in Hep3B after lnc18q22.2 knockdown
- S8. Upregulated genes (n=201) after lnc18q22.2 knockdown in HepG2 and Hep3B

S9. Downregulated genes (n=278) after Inc18q22.2 knockdown in HepG2 and Hep3B

S1. Plasma and clinical parameters of the MORE study population

	No. of individuals/ Mean (SD)			
	All individuals	Normal	NAFLD	NASH
Number of individuals	82	23	11	48
Male/Female	24/58	7/16	2/9	15/33
Age (years)	44.55 (9.77)	42.3 (10.41)	44.36 (9.46)	45.67 (9.53)
BMI (kg/m ²)	46.52 (9.69)	42.76 (6.03)	43.95 (6.53)	48.82 (11.00)
Glucose (mmol/L)	6.52 (2.07)	5.79 (1.18)	5.94 (0.96)	7.03 (2.46)
Insulin (mU/L)	19.06 (10.52)	15.37 (10.38)	21.06 (8.91)	20.42 (10.67)
HOMA-IR (mmol/L)	5.54 (3.62)	4.09 (3.64)	5.30 (2.26)	6.30 (3.68)
HbA1c	6.55 (1.4)	6.09 (0.75)	6.14 (0.63)	6.85 (1.67)
Total Cholesterol (mmol/L)	5.1 (1.16)	4.8 (0.79)	5.33 (0.73)	5.20 (1.35)
HDL (mmol/L)	0.99 (0.38)	1.04 (0.35)	1.06 (0.19)	0.95 (0.43)
LDL (mmol/L)	3.22 (1.02)	2.94 (0.83)	3.49 (0.90)	3.30 (1.11)
TG (mmol/L)	2.27 (2.07)	1.81 (0.95)	1.81 (0.95)	2.59 (2.55)
FFA (mmol/L)	0.72 (0.74)	0.47 (0.24)	0.73 (0.45)	0.85 (0.91)
ALAT (U/L)	26.53 (16.23)	20.87 (7.3)	23.30 (9.19)	30.07 (19.55)
ASAT (U/L)	24.73 (12.62)	16 (6.93)	25.5 (10.78)	28.93 (13.13)
CRP (mg/L)	9.77 (7.78)	9.23 (7.25)	11.33 (11.16)	9.67 (7.30)
IL1b	0.93 (1.13)	0.56 (0.43)	0.55 (0.17)	1.16 (1.37)
IL6	5.19 (2.55)	3.69 (1.53)	4.35 (1.53)	5.97 (2.78)
IL8	5.84 (2.75)	5.89 (1.73)	4.07 (1.04)	6.21 (3.21)
TNF	9.87 (6.33)	7.91 (2.5)	18.37 (15.04)	8.74 (1.97)

	Number of individuals scored	Grade (number of individuals)								
		0	1	2	3	4	5	6	7	8
Steatosis (0-3)	82	21	21	28	12	/	/	/	/	/
Fibrosis (0-4)	79	55	11	7	5	1	/	/	/	/
Lobular inflammation (0-3)	81	31	34	11	5	/	/	/	/	/

Ballooning (0-2)	81	42	36	3	/	/	/	/	/	/
NASH grade (0-3)	82	33	31	12	6	/	/	/	/	/
NASH stage (0-3)	81	55	14	6	6	/	/	/	/	/
NAS score (0-8)	81	21	5	8	11	23	5	4	3	1
		(0=absent, 1=present)								
Microgranulomas	80	74	6	/	/	/	/	/	/	/
Large lipogranulomas	80	60	20	/	/	/	/	/	/	/
Portal inflammation	81	63	18	/	/	/	/	/	/	/
Acidophilic bodies	80	74	6	/	/	/	/	/	/	/
Pigmented macrophages	81	73	8	/	/	/	/	/	/	/
Megamitochondria	81	79	2	/	/	/	/	/	/	/
Mallory hyaline	81	79	2	/	/	/	/	/	/	/
Glucogenated nuclei	78	64	14	/	/	/	/	/	/	/

S2. Correlation results for 3 lncRNA with NASH phenotypes

	Array Address probe ID	Gene Name	Chr	Phenotype	Spearman correlation			Linear model corrected for age, age ² and gender		Linear model corrected for age, age ² , gender and BMI	
					<i>r.value</i>	<i>p.value</i>	<i>FDR</i>	<i>estimate</i>	<i>p.value</i>	<i>estimate</i>	<i>p.value</i>
1.	3140138	MAPKAPK5-AS1	12	NASH grade	-0,53	4,06x10 ⁻⁷	0,025	-1,64	5,42x10 ⁻⁵	-1,45	0,0003
2.	6060327	RP11-484N16.1	18	NASH grade	0,51	8,11x10 ⁻⁷	0,023	1,68	2,36x10 ⁻⁸	1,63	2,06x10 ⁻⁷
				Lobular inflammation	0,50	2,35x10 ⁻⁶	0,041	1,50	2,42x10 ⁻⁷	1,39	3,08x10 ⁻⁶
				NAS score	0,48	4,69x10 ⁻⁶	0,058	3,64	4,84x10 ⁻⁷	3,28	5,20x10 ⁻⁶
3.	3130592	RP4-763G1.2	1	ASAT	-0,49	5,08x10 ⁻⁶	0,056	-8,96	0,0004	-7,78	0,0031
				NAS score	-0,48	5,80x10 ⁻⁶	0,058	-1,08	1,92x10 ⁻⁷	-1,38	0,0008

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S3. Correlation between Inc18q22.2 and 5MB window genes (microarray data, SRA data)

GeneID	MORE microarray				EnsemblID	SRA (RNAseq)					
	Array Address probe ID	r.value	p.value	FDR		SRA liver (n=63)			SRA HepG2 (n=34)		
						r.value	p.value	FDR	r.value	p.value	FDR
RP11-659F24.1	-	-	-	-	ENSG00000264634	-0,05	0,72	0,89	-0,28	0,24	0,50
RP11-526H11.1	-	-	-	-	ENSG00000264869	0,15	0,32	0,59	-0,31	0,20	0,46
RP11-421N8.2	-	-	-	-	ENSG00000264699	0,08	0,59	0,80	NA	NA	NA
RP11-421N8.1	-	-	-	-	ENSG00000260747	0,23	0,12	0,34	0,09	0,73	0,93
RP11-128D14.1	-	-	-	-	ENSG00000265425	-0,05	0,75	0,91	-0,15	0,54	0,76
AKR1B10P2	-	-	-	-	ENSG00000263355	-0,04	0,77	0,92	-0,15	0,54	0,76
RP11-585K6.2	-	-	-	-	ENSG00000264697	-0,06	0,67	0,86	-0,15	0,54	0,76
TMX3	1820187	-0,21	0,06	0,37	ENSG00000166479	0,56	6,03E-05	4,18E-03	0,27	0,27	0,54
CCDC102B	2630639	-0,11	0,32	0,73	ENSG00000150636	0,25	0,10	0,31	0,64	3,37E-03	0,04
RP11-106E15.1	-	-	-	-	ENSG00000263637	-0,04	0,78	0,92	-0,04	0,86	1,00
RNU6-39P	-	-	-	-	ENSG00000207072	0,12	0,45	0,69	-0,02	0,95	1,00
SDHCP1	-	-	-	-	ENSG00000264444	0,12	0,41	0,66	-0,26	0,27	0,54
RP11-861L17.3	-	-	-	-	ENSG00000264472	0,17	0,25	0,51	0,24	0,33	0,62
RP11-861L17.2	-	-	-	-	ENSG00000264236	0,09	0,54	0,76	-0,31	0,20	0,46
RP11-674P19.2	-	-	-	-	ENSG00000264705	0,21	0,17	0,42	-0,15	0,54	0,76
DOK6	7200341	0,14	0,21	0,63	ENSG00000206052	0,23	0,12	0,34	0,87	1,03E-06	1,48E-04
RP11-465I4.3	-	-	-	-	ENSG00000264845	0,19	0,20	0,45	0,02	0,95	1,00
RP11-465I4.2	-	-	-	-	ENSG00000265643	0,02	0,89	0,99	0,04	0,88	1,00
RP11-543H23.2	-	-	-	-	ENSG00000266840	-0,07	0,64	0,84	-0,11	0,67	0,88
CD226	3940754	-0,10	0,39	0,78	ENSG00000150637	0,22	0,14	0,38	-0,41	0,08	0,36
RTTN	6400632	-0,19	0,09	0,45	ENSG00000176225	0,28	0,06	0,23	-0,23	0,33	0,62
SOCS6	4880475	0,14	0,23	0,64	ENSG00000170677	0,61	7,40E-06	3,18E-03	0,03	0,89	1,00
RP11-4104.1	-	-	-	-	ENSG00000266258	0,67	3,64E-07	3,18E-03	0,78	7,79E-05	2,81E-03
AC013558.1	-	-	-	-	ENSG00000264059	0,12	0,41	0,66	0,04	0,86	1,00
RP11-4104.2	-	-	-	-	ENSG00000266278	0,32	0,03	0,15	-0,49	0,03	0,20

RP11-4104.3	-	-	-	-	ENSG00000265698	0,04	0,78	0,93	-0,28	0,24	0,50
RPS2P6	-	-	-	-	ENSG00000214255	0,31	0,04	0,17	-0,30	0,22	0,49
RN7SL795P	-	-	-	-	ENSG00000239748	0,06	0,71	0,89	NA	NA	NA
GTSCR1	4260372	-0,04	0,70	0,92	ENSG00000263417	0,16	0,28	0,55	-0,15	0,54	0,76
RP11-384E22.1	-	-	-	-	ENSG00000265781	0,13	0,39	0,65	-0,31	0,20	0,46
RP11-529J17.1	-	-	-	-	ENSG00000265639	0,21	0,15	0,39	NA	NA	NA
RP11-47G4.2	-	-	-	-	ENSG00000265484	0,04	0,80	0,94	-0,15	0,54	0,76
RP11-47G4.1	-	-	-	-	ENSG00000263733	0,22	0,14	0,37	-0,44	0,06	0,30
RP11-510D19.1	-	-	-	-	ENSG00000260676	-0,02	0,90	1,00	-0,31	0,20	0,46
RP11-752P2.1	-	-	-	-	ENSG00000264388	0,09	0,56	0,78	-0,31	0,19	0,46
RP11-752P2.2	-	-	-	-	ENSG00000265946	0,13	0,37	0,63	-0,15	0,54	0,76
RP11-723G8.2	-	-	-	-	ENSG00000265352	0,23	0,13	0,36	NA	NA	NA
RP11-723G8.1	-	-	-	-	ENSG00000260457	0,13	0,39	0,65	-0,15	0,54	0,76
RP11-736G13.1	-	-	-	-	ENSG00000265995	0,21	0,16	0,40	-0,15	0,54	0,76
CBLN2	670019	-0,02	0,86	0,97	ENSG00000141668	0,29	0,05	0,21	-0,44	0,06	0,30
HNRNPA1P11	-	-	-	-	ENSG00000264315	-0,01	0,96	1,00	-0,44	0,06	0,30

S4. Lnc18q22.2 and control gene expression detected by qRT-PCR in plasma of four healthy volunteers and four NASH patients

	<u>Lnc18q22.2</u>	<u>MALAT1</u>	<u>Neat</u>
Control 1	-	+	+
Control 2	-	+	+
Control 3	-	+	+
Control 4	-	+	-
NASH 1	-	+	+
NASH 2	-	+	+
NASH 3	-	+	+

NASH 4	-	+	+
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S5. Co-expressed genes with Inc18q22.2 from microarray data. 1095 probes corresponding to 984 unique genes were positively associated with Inc18q22.2 and 1040 probes corresponding to 1001 unique genes were negatively associated with Inc18q22.2.

Array Address probe ID	Gene name	r.value	p.value	FDR
6580270	LOC646723	0,78	1,25E-17	3,06E-13
3400672	SERPINB8	0,77	3,19E-17	5,18E-13
4780615	ANXA2	0,73	1,16E-14	1,42E-10
1430239	UBC	0,72	3,09E-14	3,01E-10
770730	ANXA2	0,70	1,68E-13	1,17E-09
4230201	CDKN1A	0,70	1,91E-13	1,17E-09
3060300	UBC	0,70	1,93E-13	1,17E-09
6400647	EHD4	0,69	9,69E-13	5,25E-09
6510377	TNFRSF12A	0,69	1,12E-12	5,45E-09
1770376	SERPINB8	0,68	1,57E-12	6,95E-09
20044	LOC644743	0,68	1,86E-12	7,54E-09
2340180	TAGLN2	0,68	2,12E-12	7,96E-09
4210524	RND3	0,67	4,58E-12	1,54E-08
4150048	FABP5	0,67	4,73E-12	1,54E-08
6110025	FHL2	0,67	6,56E-12	2,00E-08
6280672	TMEM49	0,66	1,08E-11	2,94E-08
5900725	PHLDA1	0,66	1,58E-11	3,76E-08
2490017	ZC3H12A	0,66	1,59E-11	3,76E-08
3130301	PIM1	0,66	1,62E-11	3,76E-08
4180343	YWHAZ	0,66	1,75E-11	3,88E-08
4220246	CCL20	0,65	2,67E-11	5,35E-08
3520328	ANXA2	0,65	2,74E-11	5,35E-08
5890468	C14ORF43	0,65	3,09E-11	5,79E-08
7150475	WDR1	0,65	3,31E-11	5,97E-08
6660398	FCN1	0,65	3,86E-11	6,72E-08
7210373	PSMD12	0,64	9,93E-11	1,67E-07
3180672	LITAF	0,64	1,13E-10	1,78E-07

1440736	<i>LDLR</i>	0,64	1,24E-10	1,78E-07
3180528	<i>MMP9</i>	0,64	1,25E-10	1,78E-07
2190452	<i>PIM3</i>	0,64	1,27E-10	1,78E-07
130324	<i>TMPRSS2</i>	0,64	1,28E-10	1,78E-07
4070736	<i>TAGLN2</i>	0,63	1,79E-10	2,38E-07
7320594	<i>ZYX</i>	0,63	1,81E-10	2,38E-07
5490470	<i>MX2</i>	0,63	2,04E-10	2,62E-07
1030270	<i>FPR1</i>	0,63	2,10E-10	2,63E-07
730440	<i>RELB</i>	0,63	2,37E-10	2,88E-07
2570291	<i>IFNGR2</i>	0,63	2,64E-10	3,09E-07
4150520	<i>RIPK2</i>	0,63	2,66E-10	3,09E-07
6420731	<i>SLC20A1</i>	0,63	2,98E-10	3,38E-07
780309	<i>CIDEA</i>	0,63	3,26E-10	3,61E-07
2490240	<i>PTPRE</i>	0,62	3,55E-10	3,85E-07
150095	<i>TP53BP2</i>	0,62	3,97E-10	4,20E-07
3930343	<i>ALOX5AP</i>	0,62	4,14E-10	4,30E-07
3370056	<i>KRT8</i>	0,62	4,41E-10	4,48E-07
770408	<i>SERPINE1</i>	0,62	4,61E-10	4,59E-07
4290072	<i>SERTAD1</i>	0,62	5,60E-10	5,46E-07
7380100	<i>MCL1</i>	0,62	6,87E-10	6,32E-07
7570358	<i>NPC1</i>	0,61	9,89E-10	8,93E-07
4640376	<i>MRLC2</i>	0,61	1,22E-09	1,08E-06
7610138	<i>DDX5</i>	0,61	1,34E-09	1,17E-06
460204	<i>ADFP</i>	0,61	1,44E-09	1,23E-06
3310424	<i>ACTG1</i>	0,61	1,72E-09	1,43E-06
4920228	<i>FFAR2</i>	0,60	1,75E-09	1,43E-06
160242	<i>C13ORF15</i>	0,60	1,76E-09	1,43E-06
2970730	<i>MYADM</i>	0,60	1,91E-09	1,50E-06
1430138	<i>MAFF</i>	0,60	1,91E-09	1,50E-06
6220671	<i>PLAUR</i>	0,60	2,01E-09	1,55E-06
5670465	<i>ADM</i>	0,60	2,04E-09	1,55E-06
4150477	<i>LOXL4</i>	0,60	2,34E-09	1,73E-06

3940528	PPP2CB	0,60	3,02E-09	2,20E-06
5810440	HNRNPAB	0,60	3,15E-09	2,26E-06
2630768	LMNA	0,60	3,34E-09	2,28E-06
1340743	IL8	0,60	3,35E-09	2,28E-06
6580672	RBBP8	0,60	3,39E-09	2,28E-06
7050484	ZYX	0,60	3,42E-09	2,28E-06
1990577	GCLM	0,60	3,60E-09	2,37E-06
5820133	C1ORF108	0,59	3,82E-09	2,49E-06
630091	NCOA7	0,59	4,02E-09	2,58E-06
2340673	PTPRE	0,59	4,25E-09	2,69E-06
5860470	TRIM15	0,59	4,94E-09	3,06E-06
7050138	RQCD1	0,59	4,96E-09	3,06E-06
4490500	ITGAX	0,59	5,04E-09	3,07E-06
5550431	MMD	0,59	5,19E-09	3,13E-06
3780717	SRXN1	0,59	5,45E-09	3,22E-06
730576	SPRY4	0,59	5,48E-09	3,22E-06
840685	IL1B	0,59	5,73E-09	3,33E-06
4220605	ETS2	0,59	6,55E-09	3,64E-06
7650358	TGFB1	0,59	6,56E-09	3,64E-06
2750719	DDX21	0,59	6,58E-09	3,64E-06
1450670	EIF4A1	0,59	6,76E-09	3,70E-06
4810653	YWHAH	0,59	6,93E-09	3,75E-06
5960132	NOLC1	0,59	7,34E-09	3,93E-06
7550484	SRGN	0,58	8,65E-09	4,54E-06
6380021	COQ10B	0,58	9,44E-09	4,89E-06
2640471	RNF24	0,58	1,03E-08	5,24E-06
4730392	MRCL3	0,58	1,03E-08	5,24E-06
1400446	ADFP	0,58	1,05E-08	5,28E-06
830278	C9ORF19	0,58	1,08E-08	5,39E-06
6350634	DYNLT1	0,58	1,15E-08	5,61E-06
6660475	FGR	0,58	1,16E-08	5,61E-06
5050519	RHOQ	0,58	1,16E-08	5,61E-06

2710142	<i>IER5L</i>	0,58	1,23E-08	5,89E-06
1190367	<i>IER3</i>	0,58	1,41E-08	6,67E-06
1940253	<i>CRY1</i>	0,58	1,42E-08	6,67E-06
540671	<i>LILRB2</i>	0,57	1,71E-08	7,93E-06
3940270	<i>LILRA5</i>	0,57	1,92E-08	8,72E-06
5270730	<i>ACTB</i>	0,57	1,93E-08	8,72E-06
6350189	<i>MGC4677</i>	0,57	2,08E-08	9,31E-06
2470017	<i>LILRB3</i>	0,57	2,23E-08	9,91E-06
4010753	<i>RHOG</i>	0,57	2,67E-08	1,16E-05
5420095	<i>MYC</i>	0,57	2,69E-08	1,16E-05
20022	<i>SRF</i>	0,57	3,12E-08	1,29E-05
1030463	<i>PROK2</i>	0,57	3,13E-08	1,29E-05
6510279	<i>DPH3</i>	0,57	3,21E-08	1,31E-05
7320551	<i>LYN</i>	0,56	3,72E-08	1,49E-05
50286	<i>EEPD1</i>	0,56	4,23E-08	1,68E-05
5290270	<i>S100A4</i>	0,56	4,32E-08	1,70E-05
20129	<i>CD52</i>	0,56	4,42E-08	1,73E-05
1070451	<i>ANXA5</i>	0,56	4,75E-08	1,82E-05
520040	<i>C1ORF108</i>	0,56	5,01E-08	1,91E-05
3610035	<i>CD58</i>	0,56	5,27E-08	1,99E-05
2140136	<i>EMR2</i>	0,56	5,31E-08	1,99E-05
6020300	<i>IL1RL1</i>	0,56	5,59E-08	2,08E-05
6330132	<i>ISG20</i>	0,56	6,13E-08	2,25E-05
6510332	<i>EPHA2</i>	0,55	6,72E-08	2,41E-05
6370201	<i>C14ORF43</i>	0,55	6,87E-08	2,44E-05
1570092	<i>TUBB6</i>	0,55	6,94E-08	2,44E-05
7160010	<i>RNF19A</i>	0,55	6,96E-08	2,44E-05
6060326	<i>ZNF295</i>	0,55	7,29E-08	2,54E-05
3370041	<i>VNN3</i>	0,55	7,63E-08	2,60E-05
60341	<i>LOC653171</i>	0,55	7,65E-08	2,60E-05
4850343	<i>LOC647954</i>	0,55	7,74E-08	2,60E-05
620280	<i>JUND</i>	0,55	7,78E-08	2,60E-05

730528	<i>PLAUR</i>	0,55	7,79E-08	2,60E-05
2060047	<i>B4GALT5</i>	0,55	8,01E-08	2,66E-05
4920053	<i>BTG3</i>	0,55	8,66E-08	2,82E-05
2450639	<i>TSC22D1</i>	0,55	8,93E-08	2,87E-05
7100215	<i>TSC22D2</i>	0,55	8,95E-08	2,87E-05
1410408	<i>ARID5B</i>	0,55	9,06E-08	2,87E-05
2640408	<i>RAB6IP1</i>	0,55	9,30E-08	2,93E-05
4780398	<i>NXT1</i>	0,55	9,52E-08	2,97E-05
3130576	<i>CHIC2</i>	0,55	9,73E-08	3,00E-05
3130220	<i>TMEM158</i>	0,55	1,00E-07	3,05E-05
1660528	<i>CKLF</i>	0,55	1,05E-07	3,18E-05
6250468	<i>DUSP6</i>	0,55	1,07E-07	3,23E-05
840356	<i>NUAK2</i>	0,55	1,09E-07	3,26E-05
4010433	<i>LOC650832</i>	0,54	1,22E-07	3,62E-05
2030132	<i>LOC653506</i>	0,54	1,23E-07	3,64E-05
3830131	<i>TUBA1C</i>	0,54	1,24E-07	3,64E-05
6250064	<i>IRF1</i>	0,54	1,25E-07	3,65E-05
7160100	<i>PPRC1</i>	0,54	1,26E-07	3,66E-05
6940358	<i>SELL</i>	0,54	1,27E-07	3,66E-05
5860093	<i>NLF2</i>	0,54	1,28E-07	3,66E-05
540681	<i>S100A10</i>	0,54	1,29E-07	3,67E-05
4480288	<i>ISG20L1</i>	0,54	1,29E-07	3,67E-05
3870484	<i>LUZP1</i>	0,54	1,32E-07	3,71E-05
7100382	<i>SPSB1</i>	0,54	1,35E-07	3,75E-05
2340215	<i>KLF6</i>	0,54	1,45E-07	3,95E-05
1580465	<i>AMICA1</i>	0,54	1,46E-07	3,95E-05
3420373	<i>SOD2</i>	0,54	1,46E-07	3,95E-05
2710735	<i>RASD1</i>	0,54	1,46E-07	3,95E-05
730332	<i>MSN</i>	0,54	1,47E-07	3,95E-05
6450092	<i>C5AR1</i>	0,54	1,48E-07	3,96E-05
2140735	<i>RALGDS</i>	0,54	1,50E-07	3,99E-05
3290639	<i>RAB7B</i>	0,54	1,63E-07	4,27E-05

7400368	<i>RUNX1</i>	0,54	1,64E-07	4,27E-05
7560288	<i>DCUN1D3</i>	0,54	1,71E-07	4,44E-05
4730176	<i>WNT11</i>	0,54	1,72E-07	4,44E-05
2470358	<i>IFNGR1</i>	0,54	1,75E-07	4,50E-05
2100484	<i>STAT3</i>	0,54	1,80E-07	4,59E-05
990288	<i>FHL2</i>	0,54	1,89E-07	4,75E-05
1570553	<i>IL8</i>	0,54	1,92E-07	4,81E-05
6270114	<i>CSF3R</i>	0,54	1,99E-07	4,92E-05
2470689	<i>SPHK1</i>	0,54	2,00E-07	4,92E-05
5390220	<i>S100A9</i>	0,54	2,03E-07	4,98E-05
3710544	<i>EIF1</i>	0,54	2,06E-07	5,02E-05
1340075	<i>BAG3</i>	0,54	2,11E-07	5,11E-05
4150689	<i>METRNL</i>	0,54	2,18E-07	5,25E-05
5720184	<i>KLF10</i>	0,53	2,26E-07	5,43E-05
4050270	<i>LOC652481</i>	0,53	2,28E-07	5,45E-05
3870619	<i>AMD1</i>	0,53	2,31E-07	5,49E-05
1030333	<i>CCL2</i>	0,53	2,37E-07	5,61E-05
5810685	<i>THBS1</i>	0,53	2,40E-07	5,61E-05
4210113	<i>CMTM2</i>	0,53	2,59E-07	5,99E-05
1780273	<i>ALOX5</i>	0,53	2,62E-07	6,02E-05
1430424	<i>RFFL</i>	0,53	2,63E-07	6,02E-05
3140369	<i>TGIF1</i>	0,53	2,80E-07	6,39E-05
2900348	<i>ZFP36</i>	0,53	2,94E-07	6,60E-05
2630577	<i>CAV2</i>	0,53	2,96E-07	6,60E-05
6960215	<i>PITPNM1</i>	0,53	2,96E-07	6,60E-05
3890326	<i>SOD2</i>	0,53	2,96E-07	6,60E-05
5960358	<i>PELO</i>	0,53	3,09E-07	6,82E-05
7550500	<i>JUNB</i>	0,53	3,12E-07	6,85E-05
2140288	<i>FLJ22662</i>	0,53	3,13E-07	6,85E-05
380050	<i>RHBDF2</i>	0,53	3,16E-07	6,89E-05
650112	<i>LST1</i>	0,53	3,20E-07	6,92E-05
70592	<i>VCL</i>	0,53	3,22E-07	6,92E-05

2970332	WEE1	0,53	3,24E-07	6,93E-05
6960440	UBE2A	0,53	3,30E-07	7,04E-05
4490520	EBI2	0,53	3,56E-07	7,54E-05
1710189	RHBDF1	0,53	3,58E-07	7,56E-05
4830504	PGM2	0,53	3,66E-07	7,68E-05
3930750	IRAK2	0,53	3,93E-07	8,18E-05
2190470	KLF10	0,53	3,95E-07	8,20E-05
6620136	MYH9	0,53	3,99E-07	8,23E-05
7400626	NFKB1	0,53	4,11E-07	8,42E-05
5690202	C6ORF166	0,53	4,11E-07	8,42E-05
6900209	ADAM19	0,52	4,15E-07	8,46E-05
4180315	CHMP4B	0,52	4,28E-07	8,69E-05
4640470	SGMS2	0,52	4,67E-07	9,36E-05
5080021	BIRC3	0,52	4,74E-07	9,47E-05
780465	SLC11A1	0,52	4,77E-07	9,50E-05
1710541	TMEM71	0,52	5,26E-07	1,04E-04
380202	NUAK2	0,52	5,38E-07	1,06E-04
2650035	PADI4	0,52	5,41E-07	1,06E-04
4040576	IL6	0,52	5,54E-07	1,08E-04
4070017	ODC1	0,52	5,63E-07	1,08E-04
7560041	AXUD1	0,52	5,64E-07	1,08E-04
2850551	RCAN1	0,52	5,65E-07	1,08E-04
620360	CAV2	0,52	5,77E-07	1,10E-04
610025	LOC400578	0,52	5,82E-07	1,11E-04
2650193	SDC4	0,52	6,27E-07	1,18E-04
6100615	CD93	0,52	6,33E-07	1,19E-04
1240386	KLHL21	0,52	6,35E-07	1,19E-04
5390095	RASSF2	0,52	6,47E-07	1,21E-04
4890324	HS.538259	0,52	6,82E-07	1,26E-04
5290161	C17ORF91	0,52	7,18E-07	1,33E-04
3060022	PHF13	0,52	7,30E-07	1,34E-04
1510424	S100P	0,51	7,60E-07	1,38E-04

5290397	<i>CLCF1</i>	0,51	7,66E-07	1,38E-04
3890138	<i>MTMR11</i>	0,51	7,70E-07	1,38E-04
4050452	<i>PPA1</i>	0,51	7,94E-07	1,42E-04
6660630	<i>TP53INP1</i>	0,51	8,22E-07	1,46E-04
1510300	<i>ELF3</i>	0,51	8,33E-07	1,48E-04
2060577	<i>TRIM15</i>	0,51	8,60E-07	1,52E-04
6280332	<i>CXCL16</i>	0,51	8,64E-07	1,52E-04
4810020	<i>PLEK</i>	0,51	9,56E-07	1,65E-04
6590341	<i>RAB31</i>	0,51	1,02E-06	1,75E-04
2640735	<i>BHLHB2</i>	0,51	1,05E-06	1,80E-04
3780019	<i>HIGD1A</i>	0,51	1,06E-06	1,80E-04
7650433	<i>TIMP1</i>	0,51	1,08E-06	1,84E-04
4010133	<i>VNN3</i>	0,51	1,11E-06	1,87E-04
4040097	<i>KLF6</i>	0,51	1,11E-06	1,87E-04
290475	<i>CTNNAL1</i>	0,51	1,12E-06	1,88E-04
1710753	<i>ARL5B</i>	0,51	1,18E-06	1,97E-04
6250615	<i>PGLYRP1</i>	0,51	1,21E-06	2,01E-04
650458	<i>FILIP1L</i>	0,51	1,22E-06	2,02E-04
3170017	<i>MAP2K3</i>	0,51	1,27E-06	2,07E-04
7570673	<i>UPP1</i>	0,51	1,28E-06	2,08E-04
5360392	<i>TP53INP2</i>	0,51	1,29E-06	2,08E-04
3360112	<i>TMEM2</i>	0,50	1,34E-06	2,17E-04
7400286	<i>HMGA1</i>	0,50	1,35E-06	2,18E-04
6200128	<i>ROD1</i>	0,50	1,38E-06	2,21E-04
7510309	<i>FRMD6</i>	0,50	1,43E-06	2,28E-04
6290270	<i>MNDA</i>	0,50	1,44E-06	2,28E-04
4210465	<i>CD86</i>	0,50	1,55E-06	2,43E-04
7380706	<i>NINJ1</i>	0,50	1,56E-06	2,44E-04
6760546	<i>TIPARP</i>	0,50	1,59E-06	2,47E-04
5090671	<i>GDF15</i>	0,50	1,72E-06	2,65E-04
6280482	<i>NIP7</i>	0,50	1,73E-06	2,65E-04
940291	<i>MIDN</i>	0,50	1,74E-06	2,66E-04

5310754	VNN1	0,50	1,78E-06	2,71E-04
6960630	CD97	0,50	1,84E-06	2,79E-04
4010100	HS.570988	0,50	1,88E-06	2,83E-04
6650176	TRMT11	0,50	1,88E-06	2,83E-04
3060523	NAMPT	0,50	1,89E-06	2,84E-04
4810520	TRIB1	0,50	2,00E-06	2,98E-04
6560091	TGFB2	0,50	2,00E-06	2,98E-04
6200168	PIM2	0,50	2,04E-06	3,03E-04
3930605	CYR61	0,50	2,06E-06	3,05E-04
1030259	HPS5	0,50	2,19E-06	3,19E-04
4810128	PHLDA2	0,50	2,21E-06	3,21E-04
5870202	FBXO33	0,50	2,26E-06	3,24E-04
4850095	PNRC1	0,49	2,28E-06	3,27E-04
4230735	FAM129A	0,49	2,30E-06	3,29E-04
50095	METRNL	0,49	2,31E-06	3,30E-04
2360719	IRAK3	0,49	2,33E-06	3,31E-04
670673	BCL2L1	0,49	2,37E-06	3,36E-04
2690239	VNN2	0,49	2,43E-06	3,41E-04
360110	KLF6	0,49	2,58E-06	3,60E-04
4250538	STAT3	0,49	2,68E-06	3,73E-04
7160348	MAPK6	0,49	2,76E-06	3,82E-04
7510132	OLR1	0,49	2,77E-06	3,82E-04
5860138	RIPK4	0,49	2,81E-06	3,84E-04
1990300	SOCS1	0,49	2,82E-06	3,84E-04
5900735	ANXA11	0,49	3,03E-06	4,09E-04
270601	HIAT1	0,49	3,08E-06	4,13E-04
5820601	CCND1	0,49	3,16E-06	4,23E-04
3450092	PELI1	0,49	3,25E-06	4,33E-04
7510537	SCO2	0,49	3,35E-06	4,45E-04
460484	CCRN4L	0,49	3,38E-06	4,48E-04
3390438	PLA2G7	0,49	3,43E-06	4,52E-04
2000424	HS.569566	0,49	3,44E-06	4,52E-04

1110338	<i>MYL6</i>	0,49	3,46E-06	4,53E-04
1690465	<i>LOC650369</i>	0,49	3,55E-06	4,62E-04
1230639	<i>TRAPPC4</i>	0,49	3,61E-06	4,67E-04
2490066	<i>CD2BP2</i>	0,49	3,68E-06	4,72E-04
2490754	<i>MAP1LC3B</i>	0,49	3,69E-06	4,72E-04
1690184	<i>RNF19A</i>	0,48	3,92E-06	4,98E-04
5870307	<i>LOC440359</i>	0,48	4,02E-06	5,08E-04
4260414	<i>H2AFY</i>	0,48	4,07E-06	5,13E-04
3450201	<i>C6ORF32</i>	0,48	4,29E-06	5,35E-04
1990278	<i>FCGR2A</i>	0,48	4,29E-06	5,35E-04
2470601	<i>IL1RN</i>	0,48	4,30E-06	5,35E-04
2320220	<i>FCAMR</i>	0,48	4,31E-06	5,35E-04
5090750	<i>FOXC1</i>	0,48	4,46E-06	5,49E-04
7560037	<i>KIAA1949</i>	0,48	4,47E-06	5,49E-04
4880408	<i>SEMA4D</i>	0,48	4,53E-06	5,54E-04
3290398	<i>SLC25A3</i>	0,48	4,56E-06	5,56E-04
3450072	<i>CLIC1</i>	0,48	4,73E-06	5,75E-04
6580189	<i>LOC387820</i>	0,48	4,78E-06	5,80E-04
7100431	<i>P2RY8</i>	0,48	4,80E-06	5,81E-04
6620026	<i>CD83</i>	0,48	4,86E-06	5,86E-04
4490709	<i>FILIP1L</i>	0,48	4,93E-06	5,93E-04
3990458	<i>S100A4</i>	0,48	5,04E-06	6,05E-04
150762	<i>OSCAR</i>	0,48	5,08E-06	6,06E-04
2710064	<i>LOC387763</i>	0,48	5,08E-06	6,06E-04
6520215	<i>ANXA1</i>	0,48	5,16E-06	6,10E-04
3710504	<i>LYZ</i>	0,48	5,17E-06	6,10E-04
5910431	<i>COL4A1</i>	0,48	5,18E-06	6,10E-04
1070367	<i>C19ORF59</i>	0,48	5,23E-06	6,15E-04
7200156	<i>ITGB2</i>	0,48	5,41E-06	6,34E-04
3940435	<i>EMP1</i>	0,48	5,46E-06	6,38E-04
4900575	<i>PTRH2</i>	0,48	5,51E-06	6,41E-04
3890373	<i>ITGB2</i>	0,48	5,58E-06	6,48E-04

1030008	<i>TGFB3</i>	0,48	5,82E-06	6,71E-04
5890706	<i>SHB</i>	0,48	6,09E-06	6,93E-04
6270437	<i>FJX1</i>	0,48	6,16E-06	7,00E-04
2850576	<i>SEMA4A</i>	0,48	6,28E-06	7,11E-04
5490719	<i>FCAMR</i>	0,48	6,41E-06	7,23E-04
5860075	<i>CAMP</i>	0,48	6,42E-06	7,23E-04
7570053	<i>RND1</i>	0,48	6,49E-06	7,29E-04
610750	<i>MCL1</i>	0,47	6,60E-06	7,40E-04
670086	<i>MXD1</i>	0,47	6,66E-06	7,43E-04
1010328	<i>NEDD9</i>	0,47	6,67E-06	7,43E-04
1010333	<i>MSX1</i>	0,47	6,72E-06	7,46E-04
6100482	<i>ATP2B4</i>	0,47	6,81E-06	7,54E-04
6560301	<i>SH2B3</i>	0,47	6,87E-06	7,59E-04
3120431	<i>IMPDH1</i>	0,47	6,93E-06	7,63E-04
4200196	<i>TNFAIP8</i>	0,47	6,93E-06	7,63E-04
5090619	<i>STAT3</i>	0,47	7,12E-06	7,80E-04
4390450	<i>SGK</i>	0,47	7,24E-06	7,91E-04
630315	<i>DHRS9</i>	0,47	7,31E-06	7,96E-04
4480504	<i>ZNF828</i>	0,47	7,34E-06	7,97E-04
4760521	<i>HPS5</i>	0,47	7,35E-06	7,97E-04
5960343	<i>PRIC285</i>	0,47	7,41E-06	7,99E-04
4830014	<i>HS.250648</i>	0,47	7,46E-06	8,03E-04
6060468	<i>S100A8</i>	0,47	7,57E-06	8,13E-04
2900068	<i>VCL</i>	0,47	7,64E-06	8,18E-04
3460070	<i>SPP1</i>	0,47	7,78E-06	8,32E-04
6020630	<i>MMP25</i>	0,47	8,03E-06	8,56E-04
5360537	<i>ARHGAP30</i>	0,47	8,25E-06	8,77E-04
3800168	<i>SLC2A3</i>	0,47	8,41E-06	8,92E-04
3400392	<i>FPR2</i>	0,47	8,57E-06	9,04E-04
4150278	<i>DUSP14</i>	0,47	8,91E-06	9,37E-04
4180079	<i>CRISPLD2</i>	0,47	8,92E-06	9,37E-04
3710148	<i>DPM2</i>	0,47	8,96E-06	9,40E-04

5870301	<i>KIAA0513</i>	0,47	9,13E-06	9,55E-04
6590253	<i>ALDOA</i>	0,47	9,40E-06	9,73E-04
4260189	<i>TGIF1</i>	0,47	9,46E-06	9,77E-04
6560072	<i>HS.184721</i>	0,47	9,57E-06	9,86E-04
5560246	<i>TPM1</i>	0,47	9,58E-06	9,86E-04
1690630	<i>FAM43A</i>	0,47	9,84E-06	1,00E-03
3940133	<i>FAM46A</i>	0,47	9,86E-06	1,00E-03
110719	<i>SLC16A3</i>	0,47	9,88E-06	1,00E-03
6110242	<i>CALCA</i>	0,47	1,02E-05	1,03E-03
3800730	<i>GNA13</i>	0,47	1,03E-05	1,03E-03
6840035	<i>GBP1</i>	0,46	1,10E-05	1,10E-03
3460477	<i>H3F3A</i>	0,46	1,11E-05	1,11E-03
6510524	<i>PSCD4</i>	0,46	1,11E-05	1,11E-03
1400376	<i>WWC3</i>	0,46	1,12E-05	1,11E-03
510255	<i>C7ORF43</i>	0,46	1,13E-05	1,12E-03
7510386	<i>IL1RN</i>	0,46	1,13E-05	1,12E-03
1230048	<i>ABCB1</i>	0,46	1,19E-05	1,16E-03
1940100	<i>TMEM184B</i>	0,46	1,20E-05	1,17E-03
3610228	<i>PEA15</i>	0,46	1,21E-05	1,17E-03
1230224	<i>DNAJB6</i>	0,46	1,23E-05	1,18E-03
2630195	<i>VAMP5</i>	0,46	1,24E-05	1,19E-03
6660315	<i>INPP1</i>	0,46	1,27E-05	1,22E-03
4760537	<i>C20ORF24</i>	0,46	1,30E-05	1,24E-03
1660086	<i>FAM100A</i>	0,46	1,35E-05	1,28E-03
6270553	<i>CXCL10</i>	0,46	1,35E-05	1,28E-03
4860114	<i>CXCR7</i>	0,46	1,36E-05	1,29E-03
7330392	<i>TAP1</i>	0,46	1,38E-05	1,30E-03
1820398	<i>HNRNPAB</i>	0,46	1,48E-05	1,38E-03
620239	<i>RCAN1</i>	0,46	1,49E-05	1,38E-03
1230156	<i>SERPINB9</i>	0,46	1,55E-05	1,42E-03
4120053	<i>PFKFB3</i>	0,46	1,56E-05	1,42E-03
1430647	<i>TAX1BP3</i>	0,46	1,56E-05	1,42E-03

2970575	CCL4L2	0,46	1,58E-05	1,43E-03
1230767	IFITM2	0,46	1,62E-05	1,46E-03
450615	MT2A	0,46	1,62E-05	1,46E-03
6020424	LMNA	0,46	1,63E-05	1,47E-03
4390703	PTPN1	0,46	1,69E-05	1,51E-03
1570746	LOC651816	0,46	1,71E-05	1,52E-03
780762	CSNK1D	0,46	1,73E-05	1,53E-03
60470	STX11	0,46	1,75E-05	1,54E-03
5570139	QPCT	0,45	1,79E-05	1,57E-03
6650465	SLC15A4	0,45	1,82E-05	1,59E-03
6580717	ZMYND15	0,45	1,82E-05	1,59E-03
130403	RNF19B	0,45	1,90E-05	1,65E-03
6060315	FERMT3	0,45	1,91E-05	1,66E-03
2640725	ARSJ	0,45	1,92E-05	1,66E-03
2640192	BNIP3L	0,45	1,93E-05	1,67E-03
7100164	HIGD1A	0,45	1,94E-05	1,67E-03
7050609	XPNPEP1	0,45	1,94E-05	1,67E-03
3930059	E2F3	0,45	2,00E-05	1,71E-03
2000300	IFI30	0,45	2,00E-05	1,71E-03
1400059	ZBTB34	0,45	2,04E-05	1,73E-03
6960372	SH3GLB1	0,45	2,04E-05	1,73E-03
3370075	EDG6	0,45	2,07E-05	1,75E-03
5050427	FKBP1A	0,45	2,07E-05	1,75E-03
4200450	G6PD	0,45	2,17E-05	1,81E-03
3780092	TNFRSF21	0,45	2,33E-05	1,91E-03
360619	FGR	0,45	2,35E-05	1,92E-03
1410201	CD59	0,45	2,36E-05	1,93E-03
1070754	CAP1	0,45	2,39E-05	1,95E-03
650241	IER5	0,45	2,41E-05	1,96E-03
4590064	CDK2	0,45	2,43E-05	1,97E-03
6250397	DPH3	0,45	2,47E-05	1,99E-03
6620121	CCL8	0,45	2,51E-05	2,02E-03

3890255	<i>TOP2B</i>	0,45	2,54E-05	2,04E-03
5690437	<i>ILF2</i>	0,45	2,56E-05	2,06E-03
540288	<i>TMEM88</i>	0,45	2,59E-05	2,07E-03
4230475	<i>SOX9</i>	0,45	2,60E-05	2,07E-03
1440408	<i>GEM</i>	0,45	2,64E-05	2,10E-03
1090575	<i>WWC1</i>	0,45	2,64E-05	2,10E-03
6510072	<i>ACTG1</i>	0,45	2,66E-05	2,12E-03
5670424	<i>GNA15</i>	0,45	2,69E-05	2,14E-03
4280482	<i>DRAM</i>	0,45	2,70E-05	2,14E-03
4560736	<i>SLCO4A1</i>	0,45	2,78E-05	2,19E-03
4230102	<i>SOCS3</i>	0,45	2,79E-05	2,19E-03
1660196	<i>HK1</i>	0,44	2,81E-05	2,20E-03
4670750	<i>TNFRSF1A</i>	0,44	2,83E-05	2,21E-03
3850722	<i>TMEM185B</i>	0,44	2,84E-05	2,21E-03
3370164	<i>ATP1A1</i>	0,44	2,85E-05	2,22E-03
6520180	<i>IL18RAP</i>	0,44	2,88E-05	2,23E-03
7560593	<i>OSM</i>	0,44	2,89E-05	2,23E-03
1990753	<i>SLA</i>	0,44	2,91E-05	2,25E-03
5810504	<i>METRNL</i>	0,44	2,95E-05	2,27E-03
1340669	<i>HS.92308</i>	0,44	2,97E-05	2,28E-03
670082	<i>GNA12</i>	0,44	3,02E-05	2,32E-03
4540228	<i>CD300LF</i>	0,44	3,06E-05	2,34E-03
1440348	<i>SLCO3A1</i>	0,44	3,07E-05	2,35E-03
5910546	<i>MGC4677</i>	0,44	3,22E-05	2,44E-03
2680110	<i>TM4SF1</i>	0,44	3,25E-05	2,45E-03
1010435	<i>C1ORF55</i>	0,44	3,27E-05	2,46E-03
360475	<i>PLAUR</i>	0,44	3,29E-05	2,47E-03
1430673	<i>SDCBP2</i>	0,44	3,38E-05	2,52E-03
1500762	<i>C3ORF37</i>	0,44	3,42E-05	2,54E-03
7330026	<i>FRAT2</i>	0,44	3,48E-05	2,57E-03
6330725	<i>BCL3</i>	0,44	3,49E-05	2,57E-03
3940148	<i>CHMP1B</i>	0,44	3,60E-05	2,64E-03

160092	<i>HSPA6</i>	0,44	3,62E-05	2,65E-03
1820632	<i>PTGS2</i>	0,44	3,68E-05	2,68E-03
1510719	<i>PLDN</i>	0,44	3,68E-05	2,68E-03
5490546	<i>SLC30A1</i>	0,44	3,68E-05	2,68E-03
1450349	<i>LOC653158</i>	0,44	3,78E-05	2,73E-03
7100288	<i>CCT2</i>	0,44	3,80E-05	2,73E-03
940274	<i>GK</i>	0,44	3,80E-05	2,73E-03
2690324	<i>KIAA1754</i>	0,44	3,81E-05	2,73E-03
510672	<i>LOC731878</i>	0,44	3,82E-05	2,74E-03
1980687	<i>PITPNB</i>	0,44	3,82E-05	2,74E-03
70451	<i>WAS</i>	0,44	3,83E-05	2,74E-03
1940524	<i>STS-1</i>	0,44	3,84E-05	2,74E-03
7160327	<i>ARPC2</i>	0,44	3,86E-05	2,74E-03
7650097	<i>OASL</i>	0,44	3,88E-05	2,75E-03
270136	<i>RFX2</i>	0,44	3,91E-05	2,77E-03
360500	<i>SRGN</i>	0,44	3,92E-05	2,77E-03
4610608	<i>LOC731049</i>	0,44	3,98E-05	2,81E-03
4220431	<i>EXT1</i>	0,44	4,01E-05	2,82E-03
5900246	<i>HS.551128</i>	0,44	4,18E-05	2,91E-03
2450504	<i>LONRF3</i>	0,44	4,28E-05	2,97E-03
6760543	<i>UBAP1</i>	0,44	4,29E-05	2,98E-03
7160239	<i>FOSB</i>	0,44	4,30E-05	2,98E-03
2810730	<i>PPHLN1</i>	0,44	4,34E-05	3,00E-03
1940504	<i>FKBP1A</i>	0,44	4,34E-05	3,00E-03
7610131	<i>EPAS1</i>	0,44	4,36E-05	3,00E-03
1170246	<i>GEM</i>	0,44	4,40E-05	3,01E-03
5810047	<i>F2RL1</i>	0,44	4,41E-05	3,01E-03
2940577	<i>HSPA2</i>	0,44	4,41E-05	3,01E-03
60647	<i>GPX1</i>	0,43	4,43E-05	3,01E-03
780554	<i>MBNL2</i>	0,43	4,62E-05	3,12E-03
5220093	<i>HAVCR2</i>	0,43	4,66E-05	3,14E-03
5910600	<i>FAM57A</i>	0,43	4,91E-05	3,28E-03

1110736	<i>CSNK1D</i>	0,43	4,92E-05	3,28E-03
1820097	<i>ZNF410</i>	0,43	4,98E-05	3,32E-03
3190112	<i>SERPINB1</i>	0,43	5,00E-05	3,32E-03
450554	<i>CCNL1</i>	0,43	5,03E-05	3,33E-03
4150369	<i>GK</i>	0,43	5,11E-05	3,38E-03
1510608	<i>HS.371609</i>	0,43	5,16E-05	3,41E-03
2140682	<i>MT1E</i>	0,43	5,63E-05	3,65E-03
2900747	<i>C10ORF10</i>	0,43	5,67E-05	3,67E-03
4210039	<i>ABCB1</i>	0,43	5,72E-05	3,69E-03
4920372	<i>KBTBD2</i>	0,43	5,72E-05	3,69E-03
5820338	<i>SNRK</i>	0,43	5,74E-05	3,70E-03
1410020	<i>TMCO3</i>	0,43	5,78E-05	3,71E-03
2510520	<i>ABL2</i>	0,43	6,01E-05	3,83E-03
6370594	<i>PPAPDC2</i>	0,43	6,10E-05	3,88E-03
4590110	<i>40057</i>	0,43	6,13E-05	3,89E-03
4670500	<i>HIVEP1</i>	0,43	6,15E-05	3,90E-03
4200441	<i>SEC14L1</i>	0,43	6,25E-05	3,95E-03
3370768	<i>C1ORF24</i>	0,43	6,27E-05	3,96E-03
940220	<i>NOD2</i>	0,43	6,29E-05	3,97E-03
1580524	<i>ACSL3</i>	0,43	6,37E-05	4,00E-03
3130612	<i>TRIP6</i>	0,43	6,41E-05	4,00E-03
110307	<i>FILIP1L</i>	0,43	6,49E-05	4,04E-03
3370037	<i>HS.561747</i>	0,43	6,50E-05	4,04E-03
6330008	<i>PDLIM3</i>	0,43	6,52E-05	4,05E-03
6060731	<i>MAPRE1</i>	0,43	6,53E-05	4,05E-03
60630	<i>GLA</i>	0,43	6,80E-05	4,19E-03
5090626	<i>FAP</i>	0,43	6,85E-05	4,22E-03
730121	<i>FBXO7</i>	0,42	6,94E-05	4,26E-03
4730711	<i>HS.193406</i>	0,42	6,94E-05	4,26E-03
1820347	<i>ASB1</i>	0,42	6,96E-05	4,27E-03
5310286	<i>SPA17</i>	0,42	7,09E-05	4,32E-03
4180369	<i>ATP2B4</i>	0,42	7,19E-05	4,37E-03

7050736	<i>FERMT3</i>	0,42	7,24E-05	4,39E-03
3840131	<i>NUP153</i>	0,42	7,27E-05	4,40E-03
2060477	<i>AGPAT9</i>	0,42	7,33E-05	4,43E-03
1570382	<i>ADAMTS9</i>	0,42	7,41E-05	4,47E-03
3840593	<i>SP110</i>	0,42	7,49E-05	4,50E-03
2370358	<i>TYROBP</i>	0,42	7,49E-05	4,50E-03
5720246	<i>AQP7P2</i>	0,42	7,51E-05	4,50E-03
150162	<i>FNDC4</i>	0,42	7,57E-05	4,52E-03
4390100	<i>LAMC2</i>	0,42	7,57E-05	4,52E-03
5570678	<i>RPS27L</i>	0,42	7,58E-05	4,52E-03
2480092	<i>CCL22</i>	0,42	7,59E-05	4,52E-03
7570753	<i>PCDHB2</i>	0,42	7,61E-05	4,52E-03
4540367	<i>LOC644647</i>	0,42	7,62E-05	4,52E-03
20241	<i>SLC7A1</i>	0,42	7,63E-05	4,52E-03
1410010	<i>PDLIM1</i>	0,42	7,66E-05	4,53E-03
1740242	<i>FVT1</i>	0,42	7,78E-05	4,59E-03
1190142	<i>EMILIN2</i>	0,42	7,83E-05	4,60E-03
7160142	<i>FREQ</i>	0,42	7,88E-05	4,63E-03
1660300	<i>PRCP</i>	0,42	7,94E-05	4,65E-03
6580634	<i>GPR4</i>	0,42	8,05E-05	4,70E-03
7000465	<i>RGL4</i>	0,42	8,17E-05	4,76E-03
4900719	<i>HS.562122</i>	0,42	8,21E-05	4,77E-03
6480692	<i>NCF4</i>	0,42	8,28E-05	4,80E-03
1470215	<i>MAP3K8</i>	0,42	8,36E-05	4,83E-03
1980059	<i>RASSF2</i>	0,42	8,48E-05	4,89E-03
5360193	<i>SIRPA</i>	0,42	8,67E-05	4,99E-03
510468	<i>NFE2</i>	0,42	8,68E-05	4,99E-03
3170139	<i>PHACTR1</i>	0,42	8,78E-05	5,03E-03
2360445	<i>NHP2L1</i>	0,42	8,78E-05	5,03E-03
5960653	<i>TMEM55A</i>	0,42	8,79E-05	5,03E-03
3370474	<i>SERTAD3</i>	0,42	8,88E-05	5,07E-03
2710746	<i>BCAR1</i>	0,42	8,92E-05	5,09E-03

2490719	<i>STK17B</i>	0,42	9,02E-05	5,12E-03
1820594	<i>HBEGF</i>	0,42	9,03E-05	5,12E-03
1430170	<i>FGL2</i>	0,42	9,13E-05	5,16E-03
3840215	<i>FAM102A</i>	0,42	9,18E-05	5,17E-03
4230619	<i>GCA</i>	0,42	9,31E-05	5,24E-03
830019	<i>PPARG</i>	0,42	9,42E-05	5,29E-03
2030553	<i>H3F3A</i>	0,42	9,48E-05	5,32E-03
7160224	<i>APH1B</i>	0,42	9,56E-05	5,34E-03
830113	<i>TNFRSF10D</i>	0,42	9,62E-05	5,36E-03
5290544	<i>NAT8</i>	0,42	9,75E-05	5,40E-03
4890133	<i>NUFIP2</i>	0,42	9,86E-05	5,43E-03
870091	<i>FLJ42393</i>	0,42	9,86E-05	5,43E-03
630010	<i>FKBP1A</i>	0,42	9,92E-05	5,45E-03
5810022	<i>MLKL</i>	0,42	1,00E-04	5,50E-03
7380136	<i>BNIP2</i>	0,42	1,01E-04	5,54E-03
3370139	<i>MYO1G</i>	0,42	1,02E-04	5,56E-03
4390131	<i>PRAMEF10</i>	0,42	1,04E-04	5,62E-03
5270167	<i>GNL3</i>	0,42	1,04E-04	5,62E-03
4640632	<i>HS.130623</i>	0,42	1,05E-04	5,68E-03
150373	<i>FABP4</i>	0,42	1,05E-04	5,68E-03
3400019	<i>RGS2</i>	0,42	1,06E-04	5,69E-03
380327	<i>LOC730820</i>	0,41	1,06E-04	5,70E-03
6650079	<i>C3ORF14</i>	0,41	1,07E-04	5,72E-03
4280100	<i>FAT</i>	0,41	1,08E-04	5,77E-03
4060600	<i>SELE</i>	0,41	1,08E-04	5,77E-03
4150356	<i>ARHGEF5</i>	0,41	1,10E-04	5,81E-03
4480497	<i>SIGLEC10</i>	0,41	1,12E-04	5,93E-03
5890386	<i>LOC642103</i>	0,41	1,13E-04	5,94E-03
630167	<i>SDCBP</i>	0,41	1,13E-04	5,94E-03
3360681	<i>TNFAIP3</i>	0,41	1,16E-04	6,04E-03
110328	<i>C14ORF32</i>	0,41	1,16E-04	6,04E-03
6250241	<i>APOB48R</i>	0,41	1,17E-04	6,10E-03

1940707	<i>RABGEF1</i>	0,41	1,18E-04	6,13E-03
3060292	<i>LAMP2</i>	0,41	1,18E-04	6,13E-03
4920110	<i>GADD45B</i>	0,41	1,19E-04	6,16E-03
6860193	<i>RTN1</i>	0,41	1,22E-04	6,27E-03
4670020	<i>NIPA2</i>	0,41	1,23E-04	6,31E-03
2320735	<i>PIAS2</i>	0,41	1,24E-04	6,34E-03
4280458	<i>MLXIP</i>	0,41	1,25E-04	6,35E-03
510703	<i>KBTBD9</i>	0,41	1,25E-04	6,35E-03
5910609	<i>IL4R</i>	0,41	1,25E-04	6,35E-03
5360376	<i>LAPTM5</i>	0,41	1,25E-04	6,36E-03
6960544	<i>TMEM185B</i>	0,41	1,25E-04	6,37E-03
150148	<i>MAP1S</i>	0,41	1,28E-04	6,47E-03
6620292	<i>C10ORF54</i>	0,41	1,30E-04	6,57E-03
5360670	<i>PLAU</i>	0,41	1,31E-04	6,57E-03
3140008	<i>PPM1G</i>	0,41	1,32E-04	6,65E-03
60397	<i>TRK1</i>	0,41	1,33E-04	6,67E-03
5360736	<i>HABP4</i>	0,41	1,33E-04	6,67E-03
3130079	<i>EIF2B2</i>	0,41	1,33E-04	6,68E-03
3870594	<i>IFI16</i>	0,41	1,34E-04	6,71E-03
3890523	<i>IL7R</i>	0,41	1,35E-04	6,75E-03
6270022	<i>HCK</i>	0,41	1,37E-04	6,85E-03
3400692	<i>TPM3</i>	0,41	1,38E-04	6,90E-03
5490768	<i>GPR56</i>	0,41	1,41E-04	6,97E-03
160170	<i>PKM2</i>	0,41	1,41E-04	6,97E-03
2970563	<i>RPRC1</i>	0,41	1,42E-04	7,02E-03
770079	<i>ATP2A2</i>	0,41	1,42E-04	7,02E-03
6770309	<i>MYL6</i>	0,41	1,43E-04	7,05E-03
1010735	<i>DDX24</i>	0,41	1,44E-04	7,10E-03
4730564	<i>TRIM37</i>	0,41	1,44E-04	7,11E-03
2140408	<i>CS</i>	0,41	1,45E-04	7,11E-03
5420754	<i>IL1RL1</i>	0,41	1,48E-04	7,24E-03
6020445	<i>TMEM32</i>	0,41	1,49E-04	7,26E-03

7000079	<i>C13ORF18</i>	0,41	1,50E-04	7,32E-03
7560180	<i>SUSD1</i>	0,41	1,52E-04	7,38E-03
2360452	<i>PFKP</i>	0,41	1,53E-04	7,43E-03
1340491	<i>SP110</i>	0,41	1,57E-04	7,61E-03
3930593	<i>ACSL3</i>	0,41	1,58E-04	7,66E-03
7100239	<i>OAZ1</i>	0,41	1,60E-04	7,71E-03
6840446	<i>HS.48787</i>	0,41	1,60E-04	7,73E-03
5260630	<i>SOC3</i>	0,40	1,61E-04	7,75E-03
3140743	<i>TACC2</i>	0,40	1,62E-04	7,81E-03
670639	<i>LONP2</i>	0,40	1,63E-04	7,82E-03
1850546	<i>FAM102A</i>	0,40	1,63E-04	7,84E-03
4290682	<i>LOC645582</i>	0,40	1,63E-04	7,84E-03
630475	<i>DHODH</i>	0,40	1,64E-04	7,86E-03
6380672	<i>CA4</i>	0,40	1,66E-04	7,93E-03
620521	<i>HS.516784</i>	0,40	1,67E-04	7,94E-03
6220369	<i>GRIA3</i>	0,40	1,68E-04	8,00E-03
2640301	<i>TNF</i>	0,40	1,69E-04	8,02E-03
580041	<i>HS.59666</i>	0,40	1,69E-04	8,03E-03
1570538	<i>GTF2E2</i>	0,40	1,69E-04	8,03E-03
4180497	<i>LOC651808</i>	0,40	1,71E-04	8,10E-03
6620689	<i>MTHFD2</i>	0,40	1,71E-04	8,10E-03
6220382	<i>CD68</i>	0,40	1,71E-04	8,10E-03
150020	<i>C19ORF22</i>	0,40	1,76E-04	8,30E-03
2640088	<i>ALDOA</i>	0,40	1,76E-04	8,30E-03
2640292	<i>CTGF</i>	0,40	1,77E-04	8,32E-03
4280577	<i>BMP2</i>	0,40	1,77E-04	8,32E-03
1240114	<i>PRAMEF10</i>	0,40	1,77E-04	8,32E-03
730554	<i>ICAM4</i>	0,40	1,79E-04	8,34E-03
2100452	<i>NUP35</i>	0,40	1,80E-04	8,39E-03
5860152	<i>CD44</i>	0,40	1,80E-04	8,39E-03
7320041	<i>GALNAC4S-6ST</i>	0,40	1,81E-04	8,41E-03
3940446	<i>TXN</i>	0,40	1,82E-04	8,44E-03

7320288	<i>CXCR4</i>	0,40	1,82E-04	8,44E-03
3440669	<i>IL8RA</i>	0,40	1,83E-04	8,45E-03
1570193	<i>ARHGDIB</i>	0,40	1,84E-04	8,49E-03
580703	<i>LOC728153</i>	0,40	1,90E-04	8,72E-03
6580168	<i>ARRDC4</i>	0,40	1,91E-04	8,74E-03
780725	<i>ADAM8</i>	0,40	1,92E-04	8,77E-03
6220746	<i>GLIPR1</i>	0,40	1,92E-04	8,77E-03
1740240	<i>PPP2CA</i>	0,40	1,93E-04	8,81E-03
10224	<i>METRNL</i>	0,40	1,94E-04	8,82E-03
5910594	<i>PTP4A3</i>	0,40	1,94E-04	8,84E-03
5890451	<i>CTNNA1</i>	0,40	1,97E-04	8,94E-03
4610390	<i>ACTB</i>	0,40	1,99E-04	8,99E-03
1470626	<i>CD97</i>	0,40	2,00E-04	9,03E-03
5570132	<i>ACTB</i>	0,40	2,02E-04	9,08E-03
940356	<i>IL15RA</i>	0,40	2,02E-04	9,08E-03
3990450	<i>IL1F7</i>	0,40	2,08E-04	9,29E-03
940753	<i>RALB</i>	0,40	2,08E-04	9,29E-03
5810189	<i>ATP2A2</i>	0,40	2,09E-04	9,30E-03
6480092	<i>FAM65A</i>	0,40	2,10E-04	9,30E-03
620300	<i>LASP1</i>	0,40	2,10E-04	9,30E-03
3390612	<i>TLR8</i>	0,40	2,10E-04	9,30E-03
7000403	<i>C20ORF45</i>	0,40	2,13E-04	9,43E-03
6660079	<i>CNTNAP5</i>	0,40	2,14E-04	9,45E-03
830176	<i>C2ORF18</i>	0,40	2,15E-04	9,49E-03
1340600	<i>PPP1R15A</i>	0,40	2,17E-04	9,53E-03
6350161	<i>LCP1</i>	0,40	2,18E-04	9,55E-03
6900601	<i>HS.157344</i>	0,40	2,19E-04	9,61E-03
6290639	<i>FLJ36701</i>	0,40	2,20E-04	9,62E-03
4640156	<i>HS.564256</i>	0,40	2,21E-04	9,68E-03
7510731	<i>WBP5</i>	0,40	2,23E-04	9,72E-03
3460687	<i>RRP12</i>	0,40	2,23E-04	9,72E-03
4280253	<i>PAK1IP1</i>	0,40	2,23E-04	9,73E-03

2850438	<i>RBM12</i>	0,40	2,25E-04	9,78E-03
5050162	<i>CD83</i>	0,40	2,27E-04	9,85E-03
1470673	<i>RFX2</i>	0,40	2,28E-04	9,88E-03
6280167	<i>LOC401115</i>	0,40	2,30E-04	9,97E-03
6060113	<i>TBX15</i>	0,40	2,32E-04	1,00E-02
1940343	<i>PANX1</i>	0,40	2,32E-04	1,00E-02
4760767	<i>UBE2D3</i>	0,40	2,34E-04	1,01E-02
1780367	<i>C12ORF44</i>	0,40	2,36E-04	1,01E-02
940706	<i>AP1S2</i>	0,40	2,39E-04	1,02E-02
1430136	<i>ARF4</i>	0,40	2,40E-04	1,03E-02
2640519	<i>NBPF1</i>	0,39	2,42E-04	1,03E-02
6760255	<i>MNT</i>	0,39	2,43E-04	1,04E-02
7160360	<i>SKAP2</i>	0,39	2,44E-04	1,04E-02
4010546	<i>PDCD2</i>	0,39	2,50E-04	1,06E-02
730739	<i>TCEAL3</i>	0,39	2,52E-04	1,07E-02
6220195	<i>BATF</i>	0,39	2,53E-04	1,07E-02
4150201	<i>BCL2</i>	0,39	2,55E-04	1,08E-02
6250019	<i>SHC1</i>	0,39	2,55E-04	1,08E-02
3830349	<i>IL7R</i>	0,39	2,56E-04	1,08E-02
6650379	<i>SERTAD3</i>	0,39	2,56E-04	1,08E-02
6330356	<i>LASS5</i>	0,39	2,59E-04	1,09E-02
7050152	<i>EVI2B</i>	0,39	2,60E-04	1,09E-02
2260477	<i>PTGS2</i>	0,39	2,62E-04	1,10E-02
4900435	<i>TNFSF13B</i>	0,39	2,67E-04	1,12E-02
6110037	<i>LILRA3</i>	0,39	2,68E-04	1,12E-02
5690687	<i>CTGF</i>	0,39	2,68E-04	1,12E-02
1110373	<i>C15ORF48</i>	0,39	2,69E-04	1,12E-02
5960747	<i>TRIM22</i>	0,39	2,70E-04	1,13E-02
1770044	<i>SEC14L1</i>	0,39	2,71E-04	1,13E-02
7380193	<i>ARPC3</i>	0,39	2,72E-04	1,13E-02
7040477	<i>PLOD2</i>	0,39	2,78E-04	1,15E-02
7510707	<i>E2F6</i>	0,39	2,87E-04	1,18E-02

2570112	<i>ABLIM1</i>	0,39	2,87E-04	1,18E-02
4290612	<i>PIWIL1</i>	0,39	2,91E-04	1,19E-02
7570148	<i>LMNB2</i>	0,39	2,92E-04	1,19E-02
1010161	<i>ARL4A</i>	0,39	2,96E-04	1,20E-02
2470458	<i>MICAL1</i>	0,39	2,96E-04	1,20E-02
2320129	<i>CSDA</i>	0,39	3,01E-04	1,22E-02
5340187	<i>TUBA1A</i>	0,39	3,02E-04	1,22E-02
6400044	<i>EPDR1</i>	0,39	3,02E-04	1,22E-02
4070259	<i>GNA12</i>	0,39	3,04E-04	1,23E-02
1110017	<i>SON</i>	0,39	3,06E-04	1,24E-02
2690270	<i>SNIP1</i>	0,39	3,06E-04	1,24E-02
5900253	<i>BATF3</i>	0,39	3,07E-04	1,24E-02
1010360	<i>GCH1</i>	0,39	3,12E-04	1,26E-02
7150176	<i>MAT2A</i>	0,39	3,14E-04	1,26E-02
1190445	<i>TOMM34</i>	0,39	3,18E-04	1,27E-02
7210170	<i>DSE</i>	0,39	3,20E-04	1,28E-02
6020255	<i>EGR2</i>	0,39	3,21E-04	1,28E-02
630465	<i>SCHIP1</i>	0,39	3,22E-04	1,29E-02
3710068	<i>WARS</i>	0,39	3,27E-04	1,30E-02
110682	<i>S100A11</i>	0,39	3,32E-04	1,32E-02
870301	<i>HKDC1</i>	0,39	3,35E-04	1,33E-02
4880215	<i>GTF2B</i>	0,39	3,36E-04	1,33E-02
6420286	<i>NDEL1</i>	0,39	3,38E-04	1,33E-02
4570154	<i>HS.496897</i>	0,39	3,38E-04	1,34E-02
1440180	<i>C20ORF24</i>	0,39	3,41E-04	1,34E-02
6510528	<i>VPS37C</i>	0,39	3,41E-04	1,34E-02
4780523	<i>TMEM200A</i>	0,39	3,46E-04	1,35E-02
6620392	<i>LFNG</i>	0,39	3,48E-04	1,36E-02
4860152	<i>PLA2G2A</i>	0,39	3,48E-04	1,36E-02
5050768	<i>LONRF1</i>	0,39	3,48E-04	1,36E-02
1170072	<i>ZSWIM4</i>	0,39	3,49E-04	1,36E-02
2900594	<i>PGD</i>	0,39	3,49E-04	1,36E-02

4230195	NAV2	0,39	3,51E-04	1,37E-02
2000546	C3ORF10	0,39	3,53E-04	1,38E-02
7380382	ZNF364	0,38	3,58E-04	1,39E-02
7050619	LRRFIP2	0,38	3,62E-04	1,40E-02
3840154	SPP1	0,38	3,66E-04	1,41E-02
2570767	CDC42SE2	0,38	3,67E-04	1,41E-02
6860347	FAM46C	0,38	3,70E-04	1,42E-02
5360521	SFT2D1	0,38	3,73E-04	1,43E-02
770463	PDLIM3	0,38	3,75E-04	1,44E-02
2190148	GBP1	0,38	3,78E-04	1,45E-02
5310296	SLC35D1	0,38	3,84E-04	1,46E-02
3890017	CTNNA1	0,38	3,84E-04	1,46E-02
4480053	GCLM	0,38	3,85E-04	1,46E-02
7160059	ATP6V0B	0,38	3,87E-04	1,47E-02
1820450	OSCAR	0,38	3,92E-04	1,48E-02
1820326	HS.561654	0,38	3,93E-04	1,49E-02
3520239	JMJD3	0,38	3,95E-04	1,49E-02
6380441	ENO1	0,38	3,96E-04	1,49E-02
5490408	CEBPD	0,38	3,96E-04	1,49E-02
2570131	HPS1	0,38	4,03E-04	1,51E-02
610754	HS.578150	0,38	4,04E-04	1,52E-02
460082	GOLT1A	0,38	4,09E-04	1,53E-02
2680253	ANKH	0,38	4,10E-04	1,53E-02
990193	SF3B4	0,38	4,15E-04	1,54E-02
6650017	ATP6V1B2	0,38	4,15E-04	1,54E-02
3360553	KIAA1434	0,38	4,21E-04	1,56E-02
6180343	HS.540313	0,38	4,26E-04	1,58E-02
7210192	ADA	0,38	4,30E-04	1,58E-02
2120093	HS.437472	0,38	4,30E-04	1,58E-02
6840477	HS.543887	0,38	4,36E-04	1,60E-02
520358	IKBKG	0,38	4,36E-04	1,60E-02
6220368	POGK	0,38	4,38E-04	1,60E-02

1510133	<i>CD37</i>	0,38	4,42E-04	1,61E-02
5960296	<i>CLDN1</i>	0,38	4,43E-04	1,61E-02
6200619	<i>AADAC</i>	0,38	4,44E-04	1,62E-02
830441	<i>SCYL1BP1</i>	0,38	4,47E-04	1,62E-02
20673	<i>BSG</i>	0,38	4,55E-04	1,65E-02
840296	<i>LOC440926</i>	0,38	4,62E-04	1,67E-02
4200608	<i>SPATA2</i>	0,38	4,66E-04	1,69E-02
6860020	<i>PLEKHA3</i>	0,38	4,74E-04	1,71E-02
2850026	<i>H3F3A</i>	0,38	4,77E-04	1,72E-02
2690209	<i>ITGAV</i>	0,38	4,86E-04	1,74E-02
780270	<i>TIMP2</i>	0,38	4,89E-04	1,75E-02
3800452	<i>EMP3</i>	0,38	4,90E-04	1,75E-02
4920739	<i>TAX1BP1</i>	0,38	4,92E-04	1,75E-02
450424	<i>CXCR7</i>	0,38	4,93E-04	1,76E-02
5490014	<i>ZBED4</i>	0,38	4,94E-04	1,76E-02
2000025	<i>LOC648024</i>	0,38	5,01E-04	1,78E-02
6420739	<i>PGM3</i>	0,38	5,07E-04	1,79E-02
840554	<i>RYBP</i>	0,38	5,07E-04	1,79E-02
2940386	<i>NRARP</i>	0,38	5,15E-04	1,81E-02
6220494	<i>LINCR</i>	0,38	5,17E-04	1,82E-02
6420605	<i>UBD</i>	0,38	5,17E-04	1,82E-02
3420332	<i>SLC37A3</i>	0,37	5,18E-04	1,82E-02
2630202	<i>FLJ45248</i>	0,37	5,23E-04	1,83E-02
5910112	<i>IL32</i>	0,37	5,31E-04	1,85E-02
1010035	<i>NLRP3</i>	0,37	5,33E-04	1,85E-02
4180544	<i>ROPN1L</i>	0,37	5,33E-04	1,85E-02
2650019	<i>FAM53C</i>	0,37	5,37E-04	1,86E-02
3610561	<i>LOC653110</i>	0,37	5,38E-04	1,87E-02
3440367	<i>ACSL3</i>	0,37	5,41E-04	1,87E-02
1580435	<i>TGM2</i>	0,37	5,41E-04	1,87E-02
6770044	<i>TEX10</i>	0,37	5,45E-04	1,88E-02
110440	<i>ITGB1</i>	0,37	5,51E-04	1,90E-02

7210253	<i>HS.544172</i>	0,37	5,52E-04	1,90E-02
6270750	<i>RASGRF2</i>	0,37	5,53E-04	1,90E-02
4280491	<i>LOC643962</i>	0,37	5,53E-04	1,90E-02
6200468	<i>CKS2</i>	0,37	5,57E-04	1,91E-02
5090056	<i>ARFGAP3</i>	0,37	5,59E-04	1,91E-02
7000368	<i>UBE2L6</i>	0,37	5,64E-04	1,92E-02
1300674	<i>FADD</i>	0,37	5,64E-04	1,92E-02
4200259	<i>ACLY</i>	0,37	5,66E-04	1,93E-02
2810040	<i>TIPRL</i>	0,37	5,72E-04	1,95E-02
2680044	<i>RAB27A</i>	0,37	5,73E-04	1,95E-02
2650753	<i>KIAA1324L</i>	0,37	5,77E-04	1,96E-02
4780086	<i>CRK</i>	0,37	5,80E-04	1,96E-02
6200577	<i>CREB5</i>	0,37	5,80E-04	1,96E-02
2360326	<i>TAGLN</i>	0,37	5,93E-04	2,00E-02
130368	<i>PRKAR1A</i>	0,37	5,94E-04	2,00E-02
1710315	<i>HYDIN</i>	0,37	5,99E-04	2,02E-02
5340246	<i>CRIP2</i>	0,37	6,02E-04	2,02E-02
2350703	<i>STX3</i>	0,37	6,11E-04	2,05E-02
6130678	<i>HS.120150</i>	0,37	6,15E-04	2,05E-02
5080364	<i>ACTN1</i>	0,37	6,17E-04	2,06E-02
70167	<i>LY96</i>	0,37	6,20E-04	2,07E-02
7400653	<i>PFKFB4</i>	0,37	6,41E-04	2,12E-02
1110180	<i>RORA</i>	0,37	6,42E-04	2,12E-02
6290021	<i>PSMD7</i>	0,37	6,48E-04	2,14E-02
5290204	<i>THPO</i>	0,37	6,53E-04	2,15E-02
6940605	<i>HS.489254</i>	0,37	6,55E-04	2,15E-02
5910402	<i>MGC102966</i>	0,37	6,59E-04	2,16E-02
1110465	<i>YPEL2</i>	0,37	6,59E-04	2,16E-02
6420386	<i>GPSM3</i>	0,37	6,66E-04	2,18E-02
7560471	<i>MOBKL2C</i>	0,37	6,73E-04	2,20E-02
4120133	<i>HYAL2</i>	0,37	6,81E-04	2,22E-02
6110592	<i>ABHD11</i>	0,37	6,96E-04	2,26E-02

7210400	STEAP1	0,37	7,04E-04	2,28E-02
290358	SGMS1	0,37	7,05E-04	2,28E-02
1770400	COMMD8	0,37	7,10E-04	2,30E-02
510398	ECOP	0,37	7,13E-04	2,30E-02
6350037	DNM1L	0,37	7,17E-04	2,31E-02
5340020	HS.22689	0,37	7,21E-04	2,32E-02
4560576	MYD88	0,37	7,23E-04	2,32E-02
650709	RNF34	0,37	7,28E-04	2,34E-02
4560164	PDLIM7	0,37	7,28E-04	2,34E-02
4670255	41701	0,37	7,41E-04	2,37E-02
4390398	LCN2	0,37	7,42E-04	2,37E-02
3830093	LMCD1	0,37	7,44E-04	2,37E-02
3520041	SON	0,37	7,45E-04	2,37E-02
3840521	STK40	0,37	7,46E-04	2,38E-02
840246	HS.563150	0,36	7,59E-04	2,41E-02
5090563	PRKCB1	0,36	7,60E-04	2,41E-02
7200431	GABPB2	0,36	7,62E-04	2,41E-02
5910364	TYMS	0,36	7,70E-04	2,43E-02
3170273	FER1L3	0,36	7,75E-04	2,45E-02
6580372	ZFYVE27	0,36	7,77E-04	2,45E-02
4730025	LOC341457	0,36	7,79E-04	2,45E-02
360719	CD44	0,36	7,92E-04	2,48E-02
2570544	CCNH	0,36	7,96E-04	2,48E-02
110180	ARHGAP9	0,36	7,97E-04	2,48E-02
7380630	HS.524902	0,36	8,05E-04	2,50E-02
4040671	COL1A2	0,36	8,12E-04	2,52E-02
2600164	THBS2	0,36	8,12E-04	2,52E-02
4810324	LOC649942	0,36	8,20E-04	2,53E-02
2810315	S100A6	0,36	8,20E-04	2,53E-02
6480360	TLR8	0,36	8,28E-04	2,55E-02
3390092	PLEKHM2	0,36	8,31E-04	2,56E-02
540129	KDEL3	0,36	8,36E-04	2,57E-02

3440487	<i>DCUN1D5</i>	0,36	8,43E-04	2,59E-02
4560484	<i>DPP3</i>	0,36	8,47E-04	2,60E-02
2060605	<i>P2RX4</i>	0,36	8,47E-04	2,60E-02
1340360	<i>RCC2</i>	0,36	8,48E-04	2,60E-02
2760544	<i>PBX4</i>	0,36	8,49E-04	2,60E-02
5050674	<i>HS.159057</i>	0,36	8,55E-04	2,61E-02
7380709	<i>YWHAB</i>	0,36	8,58E-04	2,62E-02
4200220	<i>RNF4</i>	0,36	8,62E-04	2,63E-02
6960037	<i>EDC4</i>	0,36	8,63E-04	2,63E-02
1010487	<i>BTG2</i>	0,36	8,65E-04	2,63E-02
4290279	<i>ACLY</i>	0,36	8,69E-04	2,64E-02
830035	<i>ATG3</i>	0,36	8,77E-04	2,66E-02
3440224	<i>YRDC</i>	0,36	8,79E-04	2,66E-02
290239	<i>NAV2</i>	0,36	8,79E-04	2,66E-02
6220075	<i>GPR177</i>	0,36	8,92E-04	2,69E-02
430309	<i>C6ORF66</i>	0,36	8,99E-04	2,70E-02
6180050	<i>STK24</i>	0,36	9,01E-04	2,71E-02
5310554	<i>MPP1</i>	0,36	9,10E-04	2,73E-02
7320301	<i>CCR1</i>	0,36	9,11E-04	2,73E-02
70730	<i>GAS6</i>	0,36	9,25E-04	2,76E-02
3360685	<i>OSBPL9</i>	0,36	9,26E-04	2,77E-02
7560632	<i>ITK</i>	0,36	9,29E-04	2,77E-02
3170162	<i>PRNP</i>	0,36	9,38E-04	2,79E-02
3800706	<i>TM4SF19</i>	0,36	9,49E-04	2,82E-02
620102	<i>MALL</i>	0,36	9,53E-04	2,83E-02
830168	<i>CHFR</i>	0,36	9,60E-04	2,84E-02
2600424	<i>SAA1</i>	0,36	9,62E-04	2,85E-02
2680079	<i>OGFRL1</i>	0,36	9,64E-04	2,85E-02
50446	<i>INHBB</i>	0,36	9,70E-04	2,86E-02
2710709	<i>FCGR1B</i>	0,36	9,71E-04	2,86E-02
2230672	<i>LOC652463</i>	0,36	9,80E-04	2,89E-02
4120437	<i>RRS1</i>	0,36	9,81E-04	2,89E-02

7210685	<i>MKL1</i>	0,36	9,99E-04	2,93E-02
5720113	<i>C6ORF146</i>	0,36	1,00E-03	2,93E-02
2070368	<i>TUBB2C</i>	0,36	1,01E-03	2,96E-02
4780128	<i>ATF3</i>	0,36	1,02E-03	2,97E-02
4220044	<i>SLC15A3</i>	0,36	1,02E-03	2,99E-02
2140528	<i>GPR172A</i>	0,36	1,03E-03	2,99E-02
2120445	<i>BXDC2</i>	0,36	1,03E-03	3,00E-02
360181	<i>LAMA2</i>	0,36	1,03E-03	3,00E-02
3140520	<i>TMOD1</i>	0,36	1,03E-03	3,00E-02
6860687	<i>PYCARD</i>	0,36	1,03E-03	3,00E-02
6400452	<i>LOC643878</i>	0,36	1,04E-03	3,01E-02
6450273	<i>C1ORF41</i>	0,36	1,04E-03	3,02E-02
840717	<i>CTSL1</i>	0,36	1,05E-03	3,03E-02
4290615	<i>ZBTB33</i>	0,36	1,05E-03	3,03E-02
4780072	<i>TCEAL3</i>	0,36	1,05E-03	3,04E-02
5260253	<i>TYR</i>	0,36	1,06E-03	3,06E-02
1820475	<i>HS.232142</i>	0,36	1,06E-03	3,06E-02
3290368	<i>IGFBP1</i>	0,35	1,07E-03	3,07E-02
7400470	<i>HS.409514</i>	0,35	1,07E-03	3,07E-02
5270097	<i>LOC653853</i>	0,35	1,07E-03	3,07E-02
3460132	<i>PAQR4</i>	0,35	1,07E-03	3,07E-02
2100400	<i>TNFAIP2</i>	0,35	1,08E-03	3,09E-02
2350112	<i>PRAMEF10</i>	0,35	1,09E-03	3,10E-02
2000500	<i>SF3B14</i>	0,35	1,10E-03	3,14E-02
7040301	<i>PLEKHB2</i>	0,35	1,11E-03	3,15E-02
1300369	<i>LOC255783</i>	0,35	1,11E-03	3,15E-02
3190382	<i>SNORD48</i>	0,35	1,11E-03	3,15E-02
2970195	<i>DDX3X</i>	0,35	1,12E-03	3,16E-02
6200014	<i>ZNF165</i>	0,35	1,12E-03	3,16E-02
4760747	<i>TPST1</i>	0,35	1,12E-03	3,16E-02
6290546	<i>PURB</i>	0,35	1,12E-03	3,17E-02
1050168	<i>PI3</i>	0,35	1,12E-03	3,18E-02

1740451	<i>IL1R2</i>	0,35	1,13E-03	3,19E-02
3990292	<i>KLF10</i>	0,35	1,13E-03	3,19E-02
1510538	<i>EPB41L3</i>	0,35	1,13E-03	3,19E-02
6900630	<i>ATP2B4</i>	0,35	1,13E-03	3,20E-02
10133	<i>SLC9A1</i>	0,35	1,14E-03	3,21E-02
50301	<i>EEF1E1</i>	0,35	1,14E-03	3,21E-02
1510458	<i>MYH9</i>	0,35	1,15E-03	3,25E-02
6330538	<i>MAD2L1BP</i>	0,35	1,16E-03	3,25E-02
1940180	<i>PSMB9</i>	0,35	1,16E-03	3,26E-02
2480577	<i>PDE4B</i>	0,35	1,17E-03	3,27E-02
5570187	<i>EDG3</i>	0,35	1,17E-03	3,27E-02
1820722	<i>APBB1IP</i>	0,35	1,18E-03	3,29E-02
1110372	<i>FAM130A1</i>	0,35	1,19E-03	3,31E-02
4610102	<i>TMEM123</i>	0,35	1,19E-03	3,31E-02
6620037	<i>ZNF460</i>	0,35	1,19E-03	3,31E-02
4610201	<i>SNORA10</i>	0,35	1,19E-03	3,31E-02
870382	<i>OR1L3</i>	0,35	1,19E-03	3,32E-02
6350626	<i>CCDC120</i>	0,35	1,20E-03	3,32E-02
3800161	<i>KRT7</i>	0,35	1,21E-03	3,33E-02
4280113	<i>NFKBIA</i>	0,35	1,22E-03	3,37E-02
380398	<i>LOC644096</i>	0,35	1,23E-03	3,39E-02
2320564	<i>WISP1</i>	0,35	1,23E-03	3,39E-02
4880327	<i>HS.547492</i>	0,35	1,23E-03	3,39E-02
670386	<i>ID1</i>	0,35	1,24E-03	3,40E-02
5390161	<i>DUSP5</i>	0,35	1,24E-03	3,41E-02
2600682	<i>SYTL3</i>	0,35	1,25E-03	3,41E-02
4230132	<i>ILK</i>	0,35	1,25E-03	3,41E-02
3520056	<i>ETNK1</i>	0,35	1,25E-03	3,41E-02
6480091	<i>DNAJA4</i>	0,35	1,25E-03	3,42E-02
830593	<i>VIM</i>	0,35	1,26E-03	3,45E-02
1580088	<i>HCST</i>	0,35	1,27E-03	3,45E-02
2320041	<i>TMEM189- UBE2V1</i>	0,35	1,27E-03	3,45E-02

6200753	SWAP70	0,35	1,27E-03	3,45E-02
7380139	SERINC3	0,35	1,27E-03	3,46E-02
5890450	ATP6V1E1	0,35	1,27E-03	3,46E-02
4150630	NKIRAS1	0,35	1,28E-03	3,46E-02
1430376	NIN	0,35	1,30E-03	3,51E-02
6330377	ATP6V0D1	0,35	1,30E-03	3,51E-02
4540241	C5ORF32	0,35	1,31E-03	3,52E-02
2480050	SOX7	0,35	1,31E-03	3,53E-02
5550037	CNN2	0,35	1,31E-03	3,53E-02
6860543	ATP6V1E1	0,35	1,31E-03	3,53E-02
6940768	MYBPC3	0,35	1,32E-03	3,54E-02
270168	HLA-DRA	0,35	1,32E-03	3,54E-02
4150438	LRRFIP2	0,35	1,33E-03	3,56E-02
2060037	ZBTB43	0,35	1,33E-03	3,56E-02
5570685	LOC400796	0,35	1,34E-03	3,58E-02
2570255	STARD13	0,35	1,35E-03	3,61E-02
4860243	SNRPB	0,35	1,35E-03	3,61E-02
1770097	HS.537553	0,35	1,36E-03	3,62E-02
1770364	APOLD1	0,35	1,37E-03	3,64E-02
4250398	STK4	0,35	1,37E-03	3,64E-02
5090632	LGALS9	0,35	1,38E-03	3,67E-02
4260044	SQSTM1	0,35	1,38E-03	3,67E-02
2490309	SH3TC1	0,35	1,39E-03	3,68E-02
5270619	FGD3	0,35	1,39E-03	3,68E-02
6770730	GSTO1	0,35	1,40E-03	3,70E-02
730156	ICAM2	0,35	1,41E-03	3,72E-02
4610376	FLJ11235	0,35	1,42E-03	3,73E-02
3310021	HS.572512	0,35	1,42E-03	3,73E-02
5700739	LARP7	0,35	1,42E-03	3,73E-02
5690619	HS.564389	0,35	1,42E-03	3,73E-02
6510689	HABP4	0,35	1,42E-03	3,73E-02
4290497	HS.559948	0,35	1,42E-03	3,74E-02

630356	<i>DAZAP2</i>	0,35	1,43E-03	3,75E-02
7650296	<i>DCN</i>	0,35	1,43E-03	3,75E-02
6510768	<i>LOC651481</i>	0,35	1,43E-03	3,75E-02
2510195	<i>LOC441249</i>	0,35	1,44E-03	3,76E-02
1820681	<i>DPEP2</i>	0,35	1,45E-03	3,77E-02
4590020	<i>YOD1</i>	0,35	1,45E-03	3,78E-02
4860546	<i>CTHRC1</i>	0,35	1,47E-03	3,82E-02
4050722	<i>HS.571940</i>	0,35	1,47E-03	3,82E-02
3190452	<i>DNAJB11</i>	0,35	1,47E-03	3,82E-02
1820053	<i>SLC43A2</i>	0,35	1,47E-03	3,82E-02
4050209	<i>DCTN6</i>	0,35	1,48E-03	3,83E-02
520255	<i>TUBB6</i>	0,35	1,48E-03	3,83E-02
6100136	<i>CASP4</i>	0,35	1,48E-03	3,83E-02
1410181	<i>SAMSN1</i>	0,35	1,48E-03	3,83E-02
520470	<i>NLRP12</i>	0,35	1,48E-03	3,83E-02
4200008	<i>ATG2A</i>	0,35	1,49E-03	3,84E-02
6280152	<i>UTP11L</i>	0,35	1,50E-03	3,87E-02
780528	<i>CKS2</i>	0,34	1,51E-03	3,87E-02
6400243	<i>ABLIM1</i>	0,34	1,51E-03	3,89E-02
2140286	<i>HS.578059</i>	0,34	1,52E-03	3,90E-02
1850296	<i>FLJ43663</i>	0,34	1,53E-03	3,93E-02
3710553	<i>SMOX</i>	0,34	1,53E-03	3,93E-02
1300685	<i>LOC653249</i>	0,34	1,54E-03	3,94E-02
2810468	<i>SSH2</i>	0,34	1,55E-03	3,96E-02
2940373	<i>TACC1</i>	0,34	1,55E-03	3,96E-02
6650687	<i>PIGA</i>	0,34	1,58E-03	4,00E-02
6370377	<i>C19ORF12</i>	0,34	1,59E-03	4,02E-02
3830647	<i>VPS37B</i>	0,34	1,60E-03	4,02E-02
3940390	<i>TBXAS1</i>	0,34	1,60E-03	4,02E-02
6250129	<i>TNIP2</i>	0,34	1,61E-03	4,06E-02
730577	<i>CPXM1</i>	0,34	1,62E-03	4,06E-02
3780408	<i>RAB43</i>	0,34	1,62E-03	4,06E-02

7560520	HS.348844	0,34	1,62E-03	4,07E-02
7570273	HS.368591	0,34	1,63E-03	4,07E-02
4010692	HS.569948	0,34	1,63E-03	4,08E-02
270068	SMOX	0,34	1,63E-03	4,08E-02
3360717	PIK3CD	0,34	1,64E-03	4,09E-02
3360546	UBE2W	0,34	1,64E-03	4,09E-02
730685	RGS19	0,34	1,64E-03	4,09E-02
3120520	GABARAPL2	0,34	1,64E-03	4,10E-02
6250243	HS.542667	0,34	1,65E-03	4,13E-02
4590372	VDAC1	0,34	1,66E-03	4,14E-02
780332	FAM3C	0,34	1,67E-03	4,15E-02
4860315	TESK1	0,34	1,67E-03	4,15E-02
1990390	RAB3IP	0,34	1,68E-03	4,17E-02
1470669	TNC	0,34	1,69E-03	4,18E-02
5360156	IFITM1	0,34	1,69E-03	4,18E-02
3780053	PALLD	0,34	1,69E-03	4,18E-02
5570377	HS.563743	0,34	1,69E-03	4,18E-02
430102	NTRK2	0,34	1,70E-03	4,19E-02
3800139	HEXB	0,34	1,70E-03	4,19E-02
1710240	DNAJB14	0,34	1,71E-03	4,20E-02
1230754	POR	0,34	1,71E-03	4,22E-02
2230433	TMEM154	0,34	1,72E-03	4,23E-02
2510575	ARMC8	0,34	1,73E-03	4,26E-02
4200343	CYFIP1	0,34	1,76E-03	4,30E-02
6290519	STOM	0,34	1,76E-03	4,31E-02
1990253	TDG	0,34	1,77E-03	4,32E-02
2570022	CLEC4A	0,34	1,79E-03	4,37E-02
4730706	HS.565713	0,34	1,80E-03	4,39E-02
3450402	PAK2	0,34	1,81E-03	4,39E-02
1230292	MED30	0,34	1,82E-03	4,41E-02
2640369	VIL2	0,34	1,82E-03	4,41E-02
3460754	AXIN1	0,34	1,82E-03	4,42E-02

3850440	<i>FCER1G</i>	0,34	1,82E-03	4,42E-02
7380725	<i>GRB2</i>	0,34	1,82E-03	4,42E-02
3870630	<i>ATP6V1F</i>	0,34	1,83E-03	4,43E-02
1030133	<i>C14ORF140</i>	0,34	1,84E-03	4,44E-02
4250328	<i>CHSY3</i>	0,34	1,84E-03	4,44E-02
5820037	<i>MCART6</i>	0,34	1,85E-03	4,45E-02
1070253	<i>FAM105B</i>	0,34	1,85E-03	4,45E-02
2970674	<i>LEO1</i>	0,34	1,86E-03	4,46E-02
130681	<i>RNASE6</i>	0,34	1,87E-03	4,48E-02
1940162	<i>GBP2</i>	0,34	1,89E-03	4,51E-02
5910195	<i>RBM18</i>	0,34	1,90E-03	4,53E-02
6550603	<i>HMGCR</i>	0,34	1,92E-03	4,57E-02
20201	<i>FUBP1</i>	0,34	1,93E-03	4,58E-02
360192	<i>INSIG1</i>	0,34	1,93E-03	4,58E-02
3120743	<i>LAMP2</i>	0,34	1,95E-03	4,61E-02
1770593	<i>CH25H</i>	0,34	1,95E-03	4,62E-02
3420154	<i>NLRP3</i>	0,34	1,96E-03	4,62E-02
7040176	<i>C20ORF24</i>	0,34	1,97E-03	4,64E-02
2750044	<i>ZNF280B</i>	0,34	1,97E-03	4,64E-02
5670431	<i>HS.135735</i>	0,34	1,97E-03	4,64E-02
3520288	<i>RCE1</i>	0,34	1,98E-03	4,65E-02
160706	<i>HS.529743</i>	0,34	1,98E-03	4,65E-02
3370487	<i>HNRNPAB</i>	0,34	2,02E-03	4,72E-02
1990630	<i>TRIB3</i>	0,34	2,03E-03	4,73E-02
5340148	<i>TMEM188</i>	0,34	2,04E-03	4,75E-02
840068	<i>C3AR1</i>	0,34	2,04E-03	4,76E-02
70414	<i>HS.564460</i>	0,34	2,05E-03	4,77E-02
3610193	<i>SOX17</i>	0,34	2,05E-03	4,77E-02
5420091	<i>LTB</i>	0,34	2,05E-03	4,78E-02
6650064	<i>SIGLEC5</i>	0,34	2,07E-03	4,81E-02
4890608	<i>LOC401398</i>	0,33	2,10E-03	4,85E-02
10747	<i>DOCK2</i>	0,33	2,10E-03	4,86E-02

4120563	<i>DST</i>	0,33	2,11E-03	4,87E-02
4900634	<i>TM4SF4</i>	0,33	2,12E-03	4,88E-02
70100	<i>UGT3A1</i>	0,33	2,13E-03	4,91E-02
2810411	<i>ANXA2P3</i>	0,33	2,14E-03	4,92E-02
1170170	<i>STC2</i>	0,33	2,14E-03	4,92E-02
1850041	<i>DPM2</i>	0,33	2,15E-03	4,94E-02
3390239	<i>LOC651158</i>	0,33	2,16E-03	4,95E-02
3940477	<i>TAP2</i>	0,33	2,16E-03	4,95E-02
4890241	<i>GPR56</i>	0,33	2,16E-03	4,95E-02
6200064	<i>CECR1</i>	0,33	2,17E-03	4,95E-02
3990661	<i>C14ORF24</i>	0,33	2,18E-03	4,98E-02
770575	<i>TSPAN32</i>	0,33	2,19E-03	4,99E-02
2570725	<i>PPCS</i>	-0,33	2,19E-03	4,99E-02
6420446	<i>CMPK1</i>	-0,33	2,17E-03	4,97E-02
1940072	<i>RAPGEFL1</i>	-0,33	2,17E-03	4,95E-02
3420450	<i>KIAA0240</i>	-0,33	2,16E-03	4,95E-02
6250154	<i>LZTFL1</i>	-0,33	2,15E-03	4,93E-02
3710634	<i>LOC642644</i>	-0,33	2,14E-03	4,92E-02
3440195	<i>GFM1</i>	-0,33	2,14E-03	4,92E-02
1510615	<i>CENTG3</i>	-0,33	2,14E-03	4,91E-02
3180176	<i>SYNJ2BP</i>	-0,33	2,13E-03	4,91E-02
1510465	<i>LOC400713</i>	-0,33	2,13E-03	4,90E-02
4640132	<i>C8ORF45</i>	-0,33	2,13E-03	4,90E-02
6900458	<i>LOC728481</i>	-0,33	2,12E-03	4,88E-02
2760156	<i>FAM63A</i>	-0,33	2,12E-03	4,88E-02
5130703	<i>NLP</i>	-0,33	2,11E-03	4,88E-02
5720598	<i>MYO1B</i>	-0,33	2,10E-03	4,85E-02
3310026	<i>FIGLA</i>	-0,34	2,10E-03	4,85E-02
2760121	<i>ADHFE1</i>	-0,34	2,09E-03	4,84E-02
2490452	<i>GAA</i>	-0,34	2,09E-03	4,84E-02
5870019	<i>HSPA12A</i>	-0,34	2,08E-03	4,82E-02
380626	<i>HCN4</i>	-0,34	2,07E-03	4,81E-02

1450707	<i>RING1</i>	-0,34	2,07E-03	4,81E-02
6400471	<i>HS.563568</i>	-0,34	2,07E-03	4,80E-02
4570341	<i>C8ORF46</i>	-0,34	2,06E-03	4,79E-02
6510601	<i>SHARPIN</i>	-0,34	2,04E-03	4,75E-02
1190553	<i>THSD7B</i>	-0,34	2,04E-03	4,75E-02
1410035	<i>RPS6</i>	-0,34	2,02E-03	4,72E-02
3850142	<i>KIF1C</i>	-0,34	2,02E-03	4,72E-02
3120750	<i>SEMA6C</i>	-0,34	2,02E-03	4,72E-02
1230242	<i>UBE2L3</i>	-0,34	2,02E-03	4,71E-02
3140553	<i>SAR1A</i>	-0,34	2,02E-03	4,71E-02
4180441	<i>NDUFA4</i>	-0,34	2,01E-03	4,69E-02
6110044	<i>CPS1</i>	-0,34	2,00E-03	4,69E-02
3170392	<i>HS.573834</i>	-0,34	2,00E-03	4,69E-02
1570736	<i>PRPF40B</i>	-0,34	2,00E-03	4,68E-02
5390450	<i>TSPAN2</i>	-0,34	2,00E-03	4,68E-02
7100753	<i>FOXD4L1</i>	-0,34	1,99E-03	4,66E-02
4250753	<i>TSPAN33</i>	-0,34	1,98E-03	4,65E-02
4670577	<i>TMEM17</i>	-0,34	1,98E-03	4,65E-02
5360687	<i>PKD2</i>	-0,34	1,98E-03	4,65E-02
3610367	<i>ZIM2</i>	-0,34	1,98E-03	4,65E-02
1450088	<i>HS.562875</i>	-0,34	1,97E-03	4,64E-02
3870142	<i>HS.563862</i>	-0,34	1,97E-03	4,64E-02
4760326	<i>CTPS2</i>	-0,34	1,96E-03	4,63E-02
6110487	<i>PACSIN3</i>	-0,34	1,96E-03	4,62E-02
6650692	<i>ISOC2</i>	-0,34	1,95E-03	4,61E-02
6590403	<i>LOC390811</i>	-0,34	1,95E-03	4,61E-02
2470743	<i>KMO</i>	-0,34	1,95E-03	4,61E-02
7510470	<i>CREB1</i>	-0,34	1,95E-03	4,61E-02
2600204	<i>SACM1L</i>	-0,34	1,95E-03	4,61E-02
3180402	<i>HDDC2</i>	-0,34	1,94E-03	4,61E-02
3290341	<i>AIFM1</i>	-0,34	1,94E-03	4,60E-02
2570408	<i>LOC649044</i>	-0,34	1,94E-03	4,60E-02

3890170	<i>MLLT10</i>	-0,34	1,94E-03	4,60E-02
1780682	<i>HYDIN</i>	-0,34	1,93E-03	4,58E-02
2070553	<i>TENC1</i>	-0,34	1,93E-03	4,58E-02
1510564	<i>TMEM4</i>	-0,34	1,93E-03	4,58E-02
3290242	<i>PDS5A</i>	-0,34	1,92E-03	4,57E-02
5820403	<i>CLK4</i>	-0,34	1,91E-03	4,55E-02
7040241	<i>OAT</i>	-0,34	1,90E-03	4,54E-02
2230598	<i>IGFALS</i>	-0,34	1,90E-03	4,53E-02
1240390	<i>LOC644596</i>	-0,34	1,90E-03	4,53E-02
6400437	<i>RPL32</i>	-0,34	1,90E-03	4,53E-02
1190246	<i>FBXL10</i>	-0,34	1,89E-03	4,53E-02
7210497	<i>NUAK1</i>	-0,34	1,89E-03	4,53E-02
520324	<i>REEP5</i>	-0,34	1,89E-03	4,51E-02
670176	<i>ZNF618</i>	-0,34	1,89E-03	4,51E-02
2480075	<i>ATF7IP2</i>	-0,34	1,88E-03	4,50E-02
4260364	<i>RNUXA</i>	-0,34	1,86E-03	4,46E-02
3940026	<i>HEBP2</i>	-0,34	1,86E-03	4,46E-02
1510452	<i>C8ORF59</i>	-0,34	1,85E-03	4,45E-02
4250372	<i>KLHDC3</i>	-0,34	1,85E-03	4,45E-02
5890168	<i>TMLHE</i>	-0,34	1,85E-03	4,45E-02
4760431	<i>LOC136143</i>	-0,34	1,85E-03	4,45E-02
1580608	<i>SEMA3E</i>	-0,34	1,84E-03	4,44E-02
7510600	<i>C12ORF30</i>	-0,34	1,84E-03	4,44E-02
460564	<i>FAM73A</i>	-0,34	1,84E-03	4,44E-02
4610289	<i>MTM</i>	-0,34	1,84E-03	4,44E-02
2030433	<i>HSCB</i>	-0,34	1,84E-03	4,44E-02
2260215	<i>CASP3</i>	-0,34	1,84E-03	4,44E-02
580681	<i>ZNF564</i>	-0,34	1,84E-03	4,44E-02
2370017	<i>MCM8</i>	-0,34	1,84E-03	4,44E-02
110707	<i>ANKAR</i>	-0,34	1,82E-03	4,41E-02
3190348	<i>LOC440927</i>	-0,34	1,82E-03	4,41E-02
5910441	<i>HS.552502</i>	-0,34	1,80E-03	4,39E-02

3170195	<i>FLJ10404</i>	-0,34	1,80E-03	4,39E-02
1110167	<i>TATDN1</i>	-0,34	1,80E-03	4,38E-02
4830121	<i>WDR27</i>	-0,34	1,79E-03	4,37E-02
4810661	<i>KIAA0408</i>	-0,34	1,79E-03	4,37E-02
1500747	<i>CBX7</i>	-0,34	1,79E-03	4,37E-02
6060209	<i>GNE</i>	-0,34	1,77E-03	4,33E-02
4220731	<i>P4HA1</i>	-0,34	1,77E-03	4,33E-02
4220307	<i>LOC647673</i>	-0,34	1,77E-03	4,32E-02
5310494	<i>LOC440733</i>	-0,34	1,76E-03	4,30E-02
4280300	<i>DIS3L</i>	-0,34	1,76E-03	4,30E-02
7040717	<i>AASDHPPT</i>	-0,34	1,75E-03	4,30E-02
6660414	<i>PRKAG2</i>	-0,34	1,74E-03	4,26E-02
5220195	<i>UQCRC2</i>	-0,34	1,73E-03	4,24E-02
1400397	<i>TMEM101</i>	-0,34	1,73E-03	4,24E-02
1090682	<i>FRK</i>	-0,34	1,72E-03	4,23E-02
4810739	<i>OCIAD1</i>	-0,34	1,72E-03	4,23E-02
6560286	<i>LOC649856</i>	-0,34	1,71E-03	4,21E-02
1410427	<i>ZRANB1</i>	-0,34	1,71E-03	4,21E-02
5340703	<i>KRCC1</i>	-0,34	1,70E-03	4,20E-02
2100341	<i>C14ORF2</i>	-0,34	1,69E-03	4,18E-02
3060398	<i>PTPRF</i>	-0,34	1,69E-03	4,18E-02
4880068	<i>RNF123</i>	-0,34	1,69E-03	4,18E-02
70102	<i>ALDH7A1</i>	-0,34	1,68E-03	4,16E-02
6180463	<i>CNNM3</i>	-0,34	1,68E-03	4,16E-02
1230600	<i>LOC651064</i>	-0,34	1,68E-03	4,16E-02
6380639	<i>RPLP1</i>	-0,34	1,68E-03	4,16E-02
3120647	<i>GPER</i>	-0,34	1,67E-03	4,16E-02
360747	<i>COASY</i>	-0,34	1,67E-03	4,16E-02
6660332	<i>HYPK</i>	-0,34	1,67E-03	4,16E-02
70068	<i>ACBD4</i>	-0,34	1,66E-03	4,15E-02
20017	<i>LOC650128</i>	-0,34	1,66E-03	4,13E-02
4180292	<i>ACSM3</i>	-0,34	1,64E-03	4,09E-02

2320403	<i>ABCA11</i>	-0,34	1,62E-03	4,07E-02
6280286	<i>ADAMTSL3</i>	-0,34	1,62E-03	4,07E-02
1010739	<i>C3ORF15</i>	-0,34	1,62E-03	4,06E-02
2340452	<i>RN7SL1</i>	-0,34	1,61E-03	4,04E-02
2970687	<i>NUDT13</i>	-0,34	1,60E-03	4,04E-02
2100576	<i>ARAF</i>	-0,34	1,60E-03	4,04E-02
5820386	<i>AIRE</i>	-0,34	1,59E-03	4,02E-02
5310736	<i>C3ORF28</i>	-0,34	1,59E-03	4,02E-02
670594	<i>C2</i>	-0,34	1,59E-03	4,02E-02
5340546	<i>ARPC2</i>	-0,34	1,58E-03	4,00E-02
3520746	<i>MTTP</i>	-0,34	1,58E-03	4,00E-02
1190504	<i>NEK3</i>	-0,34	1,58E-03	4,00E-02
7380707	<i>ZFAND1</i>	-0,34	1,58E-03	4,00E-02
5810048	<i>HS.584250</i>	-0,34	1,58E-03	4,00E-02
5050470	<i>GHR</i>	-0,34	1,58E-03	4,00E-02
7050561	<i>ZNF259</i>	-0,34	1,58E-03	4,00E-02
460333	<i>SPAST</i>	-0,34	1,57E-03	3,99E-02
3120075	<i>TIA1</i>	-0,34	1,57E-03	3,99E-02
1430280	<i>CEBPA</i>	-0,34	1,57E-03	3,99E-02
5870220	<i>KCNK2</i>	-0,34	1,57E-03	3,98E-02
2680600	<i>CCL16</i>	-0,34	1,56E-03	3,98E-02
2100750	<i>FKBP4</i>	-0,34	1,56E-03	3,98E-02
7560543	<i>MOCS1</i>	-0,34	1,56E-03	3,97E-02
1230646	<i>THUMPD2</i>	-0,34	1,56E-03	3,97E-02
4850543	<i>TMEM151A</i>	-0,34	1,56E-03	3,97E-02
2970026	<i>ZNF622</i>	-0,34	1,55E-03	3,96E-02
1190647	<i>ZNF323</i>	-0,34	1,55E-03	3,96E-02
7570025	<i>C11ORF45</i>	-0,34	1,55E-03	3,96E-02
1780010	<i>HTR1D</i>	-0,34	1,54E-03	3,95E-02
2510239	<i>TRIM56</i>	-0,34	1,54E-03	3,94E-02
6040356	<i>KIAA1543</i>	-0,34	1,54E-03	3,94E-02
1070070	<i>NPIP</i>	-0,34	1,52E-03	3,91E-02

2470296	<i>ZSCAN16</i>	-0,34	1,52E-03	3,91E-02
1500132	<i>SLC35A5</i>	-0,34	1,52E-03	3,90E-02
3420521	<i>C9</i>	-0,34	1,51E-03	3,89E-02
7050524	<i>LOC650346</i>	-0,34	1,51E-03	3,87E-02
1240544	<i>HS.576735</i>	-0,34	1,50E-03	3,87E-02
6980435	<i>ZNF232</i>	-0,35	1,50E-03	3,87E-02
770687	<i>FASTK</i>	-0,35	1,50E-03	3,86E-02
5490703	<i>POLR3GL</i>	-0,35	1,50E-03	3,86E-02
1170477	<i>GPRC5C</i>	-0,35	1,48E-03	3,83E-02
3180196	<i>PTCD1</i>	-0,35	1,48E-03	3,83E-02
6580593	<i>PPP1R3C</i>	-0,35	1,47E-03	3,82E-02
7150184	<i>TDRD1</i>	-0,35	1,47E-03	3,82E-02
3290630	<i>SERPINA5</i>	-0,35	1,45E-03	3,78E-02
4070086	<i>HAAO</i>	-0,35	1,45E-03	3,78E-02
2120463	<i>PKIG</i>	-0,35	1,45E-03	3,77E-02
150672	<i>KLHL7</i>	-0,35	1,44E-03	3,77E-02
4780768	<i>FAM8A1</i>	-0,35	1,44E-03	3,77E-02
3190280	<i>F7</i>	-0,35	1,44E-03	3,76E-02
380487	<i>HS.132249</i>	-0,35	1,44E-03	3,76E-02
1090008	<i>VTN</i>	-0,35	1,43E-03	3,74E-02
1440575	<i>OSBPL7</i>	-0,35	1,43E-03	3,74E-02
2900470	<i>LOC388532</i>	-0,35	1,43E-03	3,74E-02
4050463	<i>LOC219854</i>	-0,35	1,42E-03	3,73E-02
4040114	<i>TEF</i>	-0,35	1,42E-03	3,73E-02
4220161	<i>ZNF518A</i>	-0,35	1,41E-03	3,73E-02
870441	<i>PPARA</i>	-0,35	1,41E-03	3,71E-02
2060707	<i>GPR125</i>	-0,35	1,39E-03	3,68E-02
520403	<i>PRO1853</i>	-0,35	1,39E-03	3,68E-02
1660184	<i>GPR88</i>	-0,35	1,39E-03	3,68E-02
3460091	<i>SMC6</i>	-0,35	1,39E-03	3,68E-02
4920136	<i>MKKS</i>	-0,35	1,39E-03	3,68E-02
1470711	<i>TRPV1</i>	-0,35	1,38E-03	3,66E-02

2140167	<i>MOSC2</i>	-0,35	1,38E-03	3,66E-02
4810356	<i>HS.542116</i>	-0,35	1,37E-03	3,64E-02
4290189	<i>P8</i>	-0,35	1,37E-03	3,64E-02
1740204	<i>THUMPD1</i>	-0,35	1,37E-03	3,64E-02
1050050	<i>C9ORF45</i>	-0,35	1,36E-03	3,63E-02
2060440	<i>MAFB</i>	-0,35	1,36E-03	3,63E-02
510100	<i>CBY1</i>	-0,35	1,36E-03	3,63E-02
7000259	<i>DDX17</i>	-0,35	1,34E-03	3,58E-02
3190735	<i>SSNA1</i>	-0,35	1,34E-03	3,58E-02
3120608	<i>ERBB3</i>	-0,35	1,34E-03	3,58E-02
2760706	<i>C16ORF48</i>	-0,35	1,34E-03	3,58E-02
2650102	<i>ZNF792</i>	-0,35	1,34E-03	3,58E-02
2690300	<i>LOC730432</i>	-0,35	1,32E-03	3,54E-02
240736	<i>TSPAN6</i>	-0,35	1,31E-03	3,53E-02
4250427	<i>ZNF493</i>	-0,35	1,31E-03	3,53E-02
6380678	<i>RHO</i>	-0,35	1,30E-03	3,52E-02
3190746	<i>PAH</i>	-0,35	1,30E-03	3,51E-02
1450646	<i>HSD17B13</i>	-0,35	1,30E-03	3,51E-02
1190707	<i>PRPF31</i>	-0,35	1,29E-03	3,50E-02
7560189	<i>RNF5P1</i>	-0,35	1,28E-03	3,47E-02
730711	<i>LOC644733</i>	-0,35	1,28E-03	3,47E-02
1030053	<i>MZF1</i>	-0,35	1,28E-03	3,46E-02
3400685	<i>OGDHL</i>	-0,35	1,27E-03	3,45E-02
3450040	<i>CCBL1</i>	-0,35	1,27E-03	3,45E-02
6760152	<i>HS.539751</i>	-0,35	1,27E-03	3,45E-02
4150753	<i>FKBP14</i>	-0,35	1,27E-03	3,45E-02
5260639	<i>ZNF330</i>	-0,35	1,26E-03	3,44E-02
6960576	<i>WDR23</i>	-0,35	1,25E-03	3,41E-02
5700220	<i>DAPK1</i>	-0,35	1,25E-03	3,41E-02
3170431	<i>LRCH4</i>	-0,35	1,24E-03	3,41E-02
7380192	<i>SEC14L4</i>	-0,35	1,24E-03	3,41E-02
5900605	<i>DCLRE1A</i>	-0,35	1,23E-03	3,39E-02

3710450	<i>NR1H3</i>	-0,35	1,23E-03	3,38E-02
2260521	<i>C1ORF25</i>	-0,35	1,23E-03	3,38E-02
2370309	<i>HS.148519</i>	-0,35	1,22E-03	3,37E-02
5820333	<i>RPUSD2</i>	-0,35	1,22E-03	3,37E-02
2640544	<i>ASS1</i>	-0,35	1,22E-03	3,36E-02
4850092	<i>ACSM5</i>	-0,35	1,22E-03	3,36E-02
10592	<i>EFCAB4A</i>	-0,35	1,21E-03	3,34E-02
3120678	<i>CHRNA4</i>	-0,35	1,21E-03	3,34E-02
1770484	<i>CYP46A1</i>	-0,35	1,20E-03	3,33E-02
1740280	<i>NIT1</i>	-0,35	1,20E-03	3,33E-02
3400202	<i>GPATCH1</i>	-0,35	1,20E-03	3,32E-02
4610681	<i>LOC653658</i>	-0,35	1,20E-03	3,32E-02
5810477	<i>SERINC5</i>	-0,35	1,19E-03	3,32E-02
6940053	<i>NTNG1</i>	-0,35	1,19E-03	3,31E-02
7100544	<i>HS.443185</i>	-0,35	1,19E-03	3,31E-02
6760673	<i>SC65</i>	-0,35	1,19E-03	3,31E-02
3420452	<i>TSPAN13</i>	-0,35	1,19E-03	3,31E-02
5090253	<i>SFRS14</i>	-0,35	1,19E-03	3,31E-02
7510538	<i>CTBP1</i>	-0,35	1,18E-03	3,31E-02
6370014	<i>B3GAT1</i>	-0,35	1,18E-03	3,31E-02
2450754	<i>HS.543163</i>	-0,35	1,18E-03	3,31E-02
1780445	<i>POGZ</i>	-0,35	1,18E-03	3,29E-02
6180470	<i>FAM108B1</i>	-0,35	1,17E-03	3,28E-02
7150711	<i>ZNF223</i>	-0,35	1,17E-03	3,27E-02
1260154	<i>DOLPP1</i>	-0,35	1,16E-03	3,26E-02
870735	<i>ZNF514</i>	-0,35	1,16E-03	3,25E-02
4390524	<i>LOC649548</i>	-0,35	1,15E-03	3,25E-02
360689	<i>HEBP1</i>	-0,35	1,14E-03	3,21E-02
6450021	<i>ANAPC4</i>	-0,35	1,14E-03	3,21E-02
5870632	<i>TM9SF2</i>	-0,35	1,13E-03	3,19E-02
3170682	<i>FLJ42289</i>	-0,35	1,11E-03	3,16E-02
2600040	<i>C19ORF2</i>	-0,35	1,11E-03	3,16E-02

3190020	C10ORF137	-0,35	1,11E-03	3,15E-02
6620554	TSN	-0,35	1,09E-03	3,12E-02
10386	TM2D1	-0,35	1,09E-03	3,12E-02
650605	LOC388789	-0,35	1,08E-03	3,10E-02
3870561	EHMT2	-0,35	1,08E-03	3,09E-02
6940431	WSCD1	-0,35	1,08E-03	3,09E-02
2070575	ALCAM	-0,35	1,08E-03	3,09E-02
3460451	SH3PXD2A	-0,35	1,08E-03	3,09E-02
2570156	GGA1	-0,35	1,07E-03	3,08E-02
2750639	DFFA	-0,35	1,07E-03	3,08E-02
620707	SLC6A16	-0,35	1,07E-03	3,07E-02
1770519	PDRG1	-0,35	1,07E-03	3,07E-02
3830180	VPS16	-0,35	1,07E-03	3,07E-02
430438	MIAT	-0,36	1,06E-03	3,06E-02
2570482	LOC728417	-0,36	1,06E-03	3,06E-02
6330593	PTHR1	-0,36	1,05E-03	3,04E-02
6330367	C19ORF44	-0,36	1,05E-03	3,04E-02
6250646	SLC27A5	-0,36	1,04E-03	3,03E-02
2370279	MACROD1	-0,36	1,04E-03	3,02E-02
2030068	SCYL3	-0,36	1,04E-03	3,02E-02
6770315	LOC391656	-0,36	1,02E-03	2,99E-02
2600273	CATSPER2	-0,36	1,01E-03	2,95E-02
3780392	LOC143941	-0,36	1,01E-03	2,94E-02
4890341	SEC14L2	-0,36	1,00E-03	2,93E-02
2370438	A2M	-0,36	9,99E-04	2,93E-02
5420400	FLJ39827	-0,36	9,97E-04	2,92E-02
4250154	LOC648749	-0,36	9,95E-04	2,92E-02
5270753	ARG1	-0,36	9,92E-04	2,91E-02
3450521	ECM1	-0,36	9,89E-04	2,90E-02
6650189	PEX5	-0,36	9,89E-04	2,90E-02
2030020	HS.544637	-0,36	9,83E-04	2,89E-02
3870010	SNRP70	-0,36	9,79E-04	2,88E-02

1070731	<i>LOC440567</i>	-0,36	9,78E-04	2,88E-02
5700243	<i>LIN7C</i>	-0,36	9,70E-04	2,86E-02
160181	<i>FOXRED2</i>	-0,36	9,65E-04	2,85E-02
780100	<i>F7</i>	-0,36	9,63E-04	2,85E-02
5700612	<i>SEPHS1</i>	-0,36	9,60E-04	2,84E-02
4050500	<i>TAF6</i>	-0,36	9,60E-04	2,84E-02
5910543	<i>GLOD4</i>	-0,36	9,48E-04	2,82E-02
1740767	<i>C11ORF63</i>	-0,36	9,47E-04	2,81E-02
4040181	<i>NUPR1</i>	-0,36	9,43E-04	2,81E-02
4290017	<i>PLEKHA6</i>	-0,36	9,33E-04	2,78E-02
5390347	<i>ZNF79</i>	-0,36	9,31E-04	2,77E-02
6520048	<i>FCGR2A</i>	-0,36	9,29E-04	2,77E-02
6520427	<i>HS.12876</i>	-0,36	9,26E-04	2,77E-02
4830301	<i>GCN5L2</i>	-0,36	9,24E-04	2,76E-02
3830044	<i>GRTP1</i>	-0,36	9,17E-04	2,74E-02
1410079	<i>CDC26</i>	-0,36	9,15E-04	2,74E-02
1400035	<i>RCBTB2</i>	-0,36	9,09E-04	2,73E-02
840553	<i>RGMB</i>	-0,36	9,02E-04	2,71E-02
6200286	<i>RHBDL2</i>	-0,36	9,01E-04	2,71E-02
1170161	<i>HS.149679</i>	-0,36	8,96E-04	2,70E-02
990075	<i>BMP4</i>	-0,36	8,92E-04	2,69E-02
460072	<i>MTX2</i>	-0,36	8,90E-04	2,68E-02
3870470	<i>LOC728973</i>	-0,36	8,85E-04	2,67E-02
3460463	<i>PKLR</i>	-0,36	8,85E-04	2,67E-02
6450066	<i>CUX2</i>	-0,36	8,83E-04	2,67E-02
5220139	<i>FLJ23834</i>	-0,36	8,81E-04	2,66E-02
1430711	<i>KLF12</i>	-0,36	8,79E-04	2,66E-02
4230753	<i>HLX</i>	-0,36	8,78E-04	2,66E-02
5270343	<i>IQCC</i>	-0,36	8,74E-04	2,65E-02
1570280	<i>GCC1</i>	-0,36	8,70E-04	2,64E-02
670136	<i>FLJ38717</i>	-0,36	8,68E-04	2,64E-02
450376	<i>TSC2</i>	-0,36	8,64E-04	2,63E-02

6400711	<i>ZNF573</i>	-0,36	8,63E-04	2,63E-02
6450475	<i>YRDC</i>	-0,36	8,58E-04	2,62E-02
6180154	<i>MRPL10</i>	-0,36	8,55E-04	2,61E-02
620626	<i>NAT2</i>	-0,36	8,47E-04	2,60E-02
2680497	<i>NCAPD2</i>	-0,36	8,40E-04	2,58E-02
3400156	<i>FAM99A</i>	-0,36	8,35E-04	2,57E-02
6450162	<i>MGC59937</i>	-0,36	8,34E-04	2,57E-02
4830195	<i>HS.223856</i>	-0,36	8,34E-04	2,57E-02
770280	<i>OR5P2</i>	-0,36	8,34E-04	2,57E-02
6770215	<i>SARDH</i>	-0,36	8,33E-04	2,57E-02
3520484	<i>HS.552903</i>	-0,36	8,27E-04	2,55E-02
5220717	<i>HS.526973</i>	-0,36	8,15E-04	2,52E-02
2600360	<i>C1ORF9</i>	-0,36	8,13E-04	2,52E-02
1500538	<i>LOC645138</i>	-0,36	8,11E-04	2,52E-02
2710044	<i>SLC39A5</i>	-0,36	8,10E-04	2,51E-02
2070059	<i>PARP10</i>	-0,36	8,00E-04	2,49E-02
6520398	<i>HS.550371</i>	-0,36	8,00E-04	2,49E-02
4390121	<i>ADRM1</i>	-0,36	7,99E-04	2,48E-02
380068	<i>TMEM80</i>	-0,36	7,98E-04	2,48E-02
5900286	<i>ZFP90</i>	-0,36	7,96E-04	2,48E-02
6040064	<i>IHPK1</i>	-0,36	7,96E-04	2,48E-02
5810689	<i>PRRG4</i>	-0,36	7,96E-04	2,48E-02
2100358	<i>HGD</i>	-0,36	7,94E-04	2,48E-02
6380255	<i>RPS3A</i>	-0,36	7,94E-04	2,48E-02
2100521	<i>STARD8</i>	-0,36	7,94E-04	2,48E-02
5570593	<i>KIAA1751</i>	-0,36	7,89E-04	2,47E-02
1780356	<i>HAGH</i>	-0,36	7,89E-04	2,47E-02
1090041	<i>A26A1</i>	-0,36	7,88E-04	2,47E-02
50193	<i>ZNF318</i>	-0,36	7,87E-04	2,47E-02
270403	<i>TTC14</i>	-0,36	7,87E-04	2,47E-02
6560670	<i>HS.496730</i>	-0,36	7,86E-04	2,47E-02
4210520	<i>HS.538684</i>	-0,36	7,83E-04	2,46E-02

7200612	<i>LOC730417</i>	-0,36	7,82E-04	2,46E-02
1010446	<i>C1QTNF6</i>	-0,36	7,78E-04	2,45E-02
2680670	<i>HS.415576</i>	-0,36	7,73E-04	2,44E-02
4560270	<i>PTPLB</i>	-0,36	7,70E-04	2,43E-02
7380068	<i>CNBP</i>	-0,36	7,69E-04	2,43E-02
4010348	<i>INPP5B</i>	-0,36	7,65E-04	2,42E-02
4050066	<i>SGTB</i>	-0,36	7,60E-04	2,41E-02
5420367	<i>SOD1</i>	-0,36	7,60E-04	2,41E-02
7210601	<i>LOC651404</i>	-0,36	7,59E-04	2,41E-02
2140392	<i>ZNF580</i>	-0,36	7,58E-04	2,41E-02
7200719	<i>INTS3</i>	-0,36	7,52E-04	2,39E-02
510192	<i>CXXC4</i>	-0,37	7,43E-04	2,37E-02
1770025	<i>SYNE2</i>	-0,37	7,42E-04	2,37E-02
5390608	<i>GSDML</i>	-0,37	7,42E-04	2,37E-02
4050768	<i>CHST13</i>	-0,37	7,37E-04	2,36E-02
2060014	<i>HS.31532</i>	-0,37	7,35E-04	2,36E-02
4480348	<i>FBXW9</i>	-0,37	7,34E-04	2,35E-02
5820521	<i>PTBP2</i>	-0,37	7,23E-04	2,32E-02
5900129	<i>CROP</i>	-0,37	7,21E-04	2,32E-02
6060056	<i>RPLP1</i>	-0,37	7,18E-04	2,31E-02
3930437	<i>LOC339047</i>	-0,37	7,15E-04	2,31E-02
730093	<i>SHD</i>	-0,37	7,14E-04	2,30E-02
3710612	<i>FRAG1</i>	-0,37	7,13E-04	2,30E-02
110327	<i>SEC62</i>	-0,37	7,10E-04	2,30E-02
6620608	<i>ZNF248</i>	-0,37	7,09E-04	2,29E-02
1230025	<i>CYB5R1</i>	-0,37	7,03E-04	2,28E-02
6860246	<i>GRAMD1C</i>	-0,37	7,00E-04	2,27E-02
380379	<i>KIAA1737</i>	-0,37	6,91E-04	2,25E-02
2230373	<i>LOC652679</i>	-0,37	6,90E-04	2,24E-02
5340682	<i>LOC650293</i>	-0,37	6,85E-04	2,23E-02
7610528	<i>ZNF14</i>	-0,37	6,84E-04	2,23E-02
160047	<i>LOC389787</i>	-0,37	6,82E-04	2,22E-02

2630224	LOC93622	-0,37	6,76E-04	2,21E-02
1770270	C10RF117	-0,37	6,74E-04	2,20E-02
6370358	C10RF168	-0,37	6,72E-04	2,20E-02
6370228	HS.554507	-0,37	6,58E-04	2,16E-02
2470270	DUS4L	-0,37	6,57E-04	2,16E-02
2100519	IPP	-0,37	6,55E-04	2,15E-02
4070706	GALK2	-0,37	6,55E-04	2,15E-02
3170669	REV1	-0,37	6,54E-04	2,15E-02
6770279	ERMAP	-0,37	6,49E-04	2,14E-02
1580129	MRPS7	-0,37	6,48E-04	2,14E-02
2970632	RP9	-0,37	6,45E-04	2,13E-02
5260082	CP110	-0,37	6,44E-04	2,13E-02
6900768	HS.162932	-0,37	6,44E-04	2,13E-02
6250605	RCCD1	-0,37	6,41E-04	2,12E-02
2570731	TRPV1	-0,37	6,38E-04	2,11E-02
5340059	LRRC58	-0,37	6,36E-04	2,11E-02
4830446	LOC645520	-0,37	6,35E-04	2,11E-02
2750202	HS.537002	-0,37	6,26E-04	2,08E-02
5560482	UBQLN2	-0,37	6,26E-04	2,08E-02
2030414	BCHE	-0,37	6,25E-04	2,08E-02
430519	FAM120A	-0,37	6,24E-04	2,08E-02
2340709	ZMYM3	-0,37	6,22E-04	2,07E-02
6380131	TAF1C	-0,37	6,19E-04	2,06E-02
1980259	C15ORF28	-0,37	6,14E-04	2,05E-02
6180678	TMEM143	-0,37	6,13E-04	2,05E-02
5220653	NARS	-0,37	6,13E-04	2,05E-02
3190634	DSTN	-0,37	6,11E-04	2,05E-02
3130132	LOC654260	-0,37	6,08E-04	2,04E-02
3830192	ZNF791	-0,37	6,07E-04	2,04E-02
6370639	MINPP1	-0,37	6,04E-04	2,03E-02
2340093	GABRA3	-0,37	6,02E-04	2,02E-02
770561	C20ORF108	-0,37	5,91E-04	1,99E-02

6180204	<i>FUK</i>	-0,37	5,91E-04	1,99E-02
1400019	<i>CPA2</i>	-0,37	5,91E-04	1,99E-02
4890463	<i>EXOSC10</i>	-0,37	5,83E-04	1,97E-02
2640274	<i>ALDH5A1</i>	-0,37	5,83E-04	1,97E-02
4050196	<i>RNF170</i>	-0,37	5,83E-04	1,97E-02
1410600	<i>TRIM13</i>	-0,37	5,78E-04	1,96E-02
2320215	<i>NUP210</i>	-0,37	5,76E-04	1,95E-02
2810674	<i>TRIM4</i>	-0,37	5,68E-04	1,93E-02
3610278	<i>LOC91661</i>	-0,37	5,67E-04	1,93E-02
1770273	<i>ANKRD30B</i>	-0,37	5,66E-04	1,93E-02
6220131	<i>HS.14514</i>	-0,37	5,64E-04	1,92E-02
1090576	<i>EIF2B5</i>	-0,37	5,61E-04	1,92E-02
7570131	<i>RPS18</i>	-0,37	5,56E-04	1,90E-02
1690114	<i>U2AF2</i>	-0,37	5,55E-04	1,90E-02
5130176	<i>ASAH1</i>	-0,37	5,53E-04	1,90E-02
7150259	<i>C7ORF49</i>	-0,37	5,52E-04	1,90E-02
6940008	<i>PNLDC1</i>	-0,37	5,49E-04	1,89E-02
2120653	<i>RAXL1</i>	-0,37	5,49E-04	1,89E-02
4810494	<i>AKAP1</i>	-0,37	5,45E-04	1,88E-02
5690402	<i>CLOCK</i>	-0,37	5,45E-04	1,88E-02
2370193	<i>RPS15A</i>	-0,37	5,44E-04	1,88E-02
7400240	<i>KLKB1</i>	-0,37	5,44E-04	1,88E-02
5360673	<i>HS.562058</i>	-0,37	5,40E-04	1,87E-02
7050040	<i>ZNF318</i>	-0,37	5,35E-04	1,86E-02
2490291	<i>PAN2</i>	-0,37	5,32E-04	1,85E-02
6250390	<i>TSR2</i>	-0,37	5,31E-04	1,85E-02
2260168	<i>LOC731640</i>	-0,37	5,27E-04	1,84E-02
290435	<i>KRTCAP3</i>	-0,37	5,27E-04	1,84E-02
4070154	<i>IQWD1</i>	-0,37	5,24E-04	1,83E-02
4290196	<i>SCRIB</i>	-0,37	5,22E-04	1,83E-02
3990703	<i>IL10</i>	-0,37	5,21E-04	1,83E-02
20192	<i>DHX35</i>	-0,37	5,21E-04	1,83E-02

2810373	FAM20A	-0,37	5,18E-04	1,82E-02
150491	LOC401622	-0,38	5,15E-04	1,81E-02
460347	LOC150383	-0,38	5,11E-04	1,80E-02
2710653	FBXO38	-0,38	5,09E-04	1,79E-02
3370274	ANKRD11	-0,38	5,08E-04	1,79E-02
6660348	DCUN1D4	-0,38	5,08E-04	1,79E-02
3170292	DDAH1	-0,38	5,08E-04	1,79E-02
3930296	EIF1AX	-0,38	5,05E-04	1,79E-02
4210722	LOC641693	-0,38	5,02E-04	1,78E-02
4610041	LOC728473	-0,38	5,01E-04	1,78E-02
60707	DPP8	-0,38	4,97E-04	1,76E-02
6900674	ANKRD10	-0,38	4,94E-04	1,76E-02
4070296	BCORL1	-0,38	4,94E-04	1,76E-02
6580504	LOC124512	-0,38	4,91E-04	1,75E-02
1740131	HAO1	-0,38	4,88E-04	1,74E-02
1510091	VPS36	-0,38	4,87E-04	1,74E-02
3870608	CSPP1	-0,38	4,84E-04	1,73E-02
2350543	EID2B	-0,38	4,82E-04	1,73E-02
2640767	LOC646100	-0,38	4,81E-04	1,73E-02
3060040	PABPC1	-0,38	4,80E-04	1,72E-02
1440356	CNOT4	-0,38	4,78E-04	1,72E-02
6620521	BLVRB	-0,38	4,74E-04	1,71E-02
540239	TRIM41	-0,38	4,74E-04	1,71E-02
2680156	RBM10	-0,38	4,71E-04	1,70E-02
6040768	DMAP1	-0,38	4,69E-04	1,69E-02
5260386	PCGF1	-0,38	4,67E-04	1,69E-02
2970315	RNPC3	-0,38	4,65E-04	1,68E-02
4570484	USP48	-0,38	4,62E-04	1,67E-02
5960411	BCYRN1	-0,38	4,60E-04	1,67E-02
670446	FAM86C	-0,38	4,45E-04	1,62E-02
2510324	NUDT2	-0,38	4,44E-04	1,62E-02
3850228	ZRANB2	-0,38	4,40E-04	1,61E-02

2060491	<i>ZNF565</i>	-0,38	4,39E-04	1,60E-02
2470279	<i>ACADM</i>	-0,38	4,37E-04	1,60E-02
2320047	<i>NFIA</i>	-0,38	4,37E-04	1,60E-02
3370136	<i>ACAD11</i>	-0,38	4,34E-04	1,59E-02
7210333	<i>HS.571151</i>	-0,38	4,34E-04	1,59E-02
6280520	<i>TMEM45A</i>	-0,38	4,32E-04	1,59E-02
1990047	<i>C9ORF119</i>	-0,38	4,32E-04	1,59E-02
6380376	<i>USP21</i>	-0,38	4,30E-04	1,58E-02
1660541	<i>ESRRA</i>	-0,38	4,30E-04	1,58E-02
1660762	<i>LOC285908</i>	-0,38	4,29E-04	1,58E-02
6620520	<i>LOC652009</i>	-0,38	4,29E-04	1,58E-02
1300328	<i>ABHD10</i>	-0,38	4,27E-04	1,58E-02
620639	<i>ASAH1</i>	-0,38	4,27E-04	1,58E-02
840551	<i>CEP27</i>	-0,38	4,27E-04	1,58E-02
4230035	<i>KIAA0999</i>	-0,38	4,23E-04	1,57E-02
5490053	<i>DLEU1</i>	-0,38	4,19E-04	1,55E-02
4890703	<i>MBTD1</i>	-0,38	4,17E-04	1,55E-02
520754	<i>CSTF1</i>	-0,38	4,16E-04	1,55E-02
5690156	<i>TTC31</i>	-0,38	4,15E-04	1,54E-02
1580168	<i>ACTR6</i>	-0,38	4,12E-04	1,54E-02
1770133	<i>LOC389599</i>	-0,38	4,11E-04	1,53E-02
1710113	<i>PPP1R3E</i>	-0,38	4,09E-04	1,53E-02
1050754	<i>LOC653583</i>	-0,38	4,06E-04	1,52E-02
4220441	<i>PTPRD</i>	-0,38	4,05E-04	1,52E-02
6200253	<i>THBS4</i>	-0,38	4,05E-04	1,52E-02
6350484	<i>SLC28A1</i>	-0,38	4,04E-04	1,52E-02
4040093	<i>GIMAP6</i>	-0,38	4,03E-04	1,51E-02
3940653	<i>PREPL</i>	-0,38	4,02E-04	1,51E-02
4260687	<i>SLCO4C1</i>	-0,38	3,95E-04	1,49E-02
1470386	<i>CPNE8</i>	-0,38	3,95E-04	1,49E-02
2630379	<i>ZNF69</i>	-0,38	3,94E-04	1,49E-02
4850500	<i>PVRL3</i>	-0,38	3,91E-04	1,48E-02

6420521	<i>PRUNE</i>	-0,38	3,91E-04	1,48E-02
1980474	<i>LOC201164</i>	-0,38	3,88E-04	1,47E-02
6650026	<i>ASTE1</i>	-0,38	3,85E-04	1,46E-02
4280725	<i>RNF14</i>	-0,38	3,84E-04	1,46E-02
6580291	<i>ABAT</i>	-0,38	3,84E-04	1,46E-02
6660487	<i>ZNF577</i>	-0,38	3,83E-04	1,46E-02
5310292	<i>CFHR5</i>	-0,38	3,81E-04	1,46E-02
1430392	<i>LOC648130</i>	-0,38	3,79E-04	1,45E-02
160307	<i>C9ORF3</i>	-0,38	3,77E-04	1,44E-02
6290110	<i>RFC1</i>	-0,38	3,76E-04	1,44E-02
5870594	<i>RAB33B</i>	-0,38	3,74E-04	1,44E-02
5260632	<i>UBE2D4</i>	-0,38	3,70E-04	1,42E-02
7200519	<i>FLJ46309</i>	-0,38	3,69E-04	1,42E-02
1990053	<i>POLRMT</i>	-0,38	3,66E-04	1,41E-02
540446	<i>TIMM8B</i>	-0,38	3,65E-04	1,41E-02
1030201	<i>WDR33</i>	-0,38	3,65E-04	1,41E-02
630278	<i>H1FO</i>	-0,38	3,63E-04	1,41E-02
730722	<i>ITIH2</i>	-0,38	3,61E-04	1,40E-02
1230653	<i>CYP3A43</i>	-0,38	3,60E-04	1,40E-02
4640491	<i>CDO1</i>	-0,38	3,60E-04	1,40E-02
830064	<i>HS.290540</i>	-0,38	3,57E-04	1,39E-02
1850612	<i>PARP2</i>	-0,39	3,53E-04	1,37E-02
3460528	<i>HS.122125</i>	-0,39	3,47E-04	1,36E-02
1430689	<i>LOC55908</i>	-0,39	3,45E-04	1,35E-02
5870372	<i>UGT2B28</i>	-0,39	3,44E-04	1,35E-02
7000754	<i>AMY2B</i>	-0,39	3,44E-04	1,35E-02
6590338	<i>LOC401623</i>	-0,39	3,43E-04	1,35E-02
3440189	<i>ZBTB20</i>	-0,39	3,41E-04	1,34E-02
5860187	<i>PHYH</i>	-0,39	3,39E-04	1,34E-02
450300	<i>ANKFY1</i>	-0,39	3,38E-04	1,33E-02
1990717	<i>C1ORF63</i>	-0,39	3,38E-04	1,33E-02
730392	<i>HS.543842</i>	-0,39	3,36E-04	1,33E-02

3830274	<i>CROT</i>	-0,39	3,34E-04	1,33E-02
6370674	<i>TUBE1</i>	-0,39	3,32E-04	1,32E-02
4180630	<i>HS.439050</i>	-0,39	3,32E-04	1,32E-02
3310259	<i>LOC648852</i>	-0,39	3,31E-04	1,32E-02
1260601	<i>ST6GAL1</i>	-0,39	3,29E-04	1,31E-02
6760192	<i>CHP</i>	-0,39	3,25E-04	1,30E-02
6110356	<i>RPS14</i>	-0,39	3,17E-04	1,27E-02
4390576	<i>DFFA</i>	-0,39	3,16E-04	1,27E-02
3930082	<i>FLJ12355</i>	-0,39	3,12E-04	1,25E-02
450161	<i>FAHD1</i>	-0,39	3,12E-04	1,25E-02
2510209	<i>KDELRL1</i>	-0,39	3,06E-04	1,24E-02
870128	<i>ZKSCAN1</i>	-0,39	3,01E-04	1,22E-02
5490671	<i>XAB2</i>	-0,39	3,00E-04	1,22E-02
3370121	<i>LASS2</i>	-0,39	2,99E-04	1,21E-02
4860500	<i>LOC652968</i>	-0,39	2,95E-04	1,20E-02
7210450	<i>LMO4</i>	-0,39	2,94E-04	1,20E-02
6370682	<i>GRIPAP1</i>	-0,39	2,93E-04	1,20E-02
6560239	<i>CYP4F12</i>	-0,39	2,91E-04	1,19E-02
2060110	<i>TDP1</i>	-0,39	2,91E-04	1,19E-02
7150162	<i>MRPS25</i>	-0,39	2,90E-04	1,19E-02
3450114	<i>FAM69B</i>	-0,39	2,89E-04	1,19E-02
6350324	<i>GLYAT</i>	-0,39	2,87E-04	1,18E-02
7200021	<i>CUL4A</i>	-0,39	2,87E-04	1,18E-02
6770647	<i>TLK1</i>	-0,39	2,86E-04	1,18E-02
4920682	<i>GLYCTK</i>	-0,39	2,83E-04	1,17E-02
6420730	<i>RPL9</i>	-0,39	2,82E-04	1,16E-02
650349	<i>RPS28</i>	-0,39	2,80E-04	1,15E-02
4050377	<i>LOC648622</i>	-0,39	2,77E-04	1,15E-02
2260376	<i>C14ORF131</i>	-0,39	2,76E-04	1,14E-02
990687	<i>STOX2</i>	-0,39	2,75E-04	1,14E-02
6900053	<i>PPFIBP2</i>	-0,39	2,74E-04	1,14E-02
3140047	<i>CROP</i>	-0,39	2,72E-04	1,13E-02

6100630	<i>MUM1</i>	-0,39	2,70E-04	1,13E-02
70767	<i>BAIAP2</i>	-0,39	2,70E-04	1,13E-02
3290187	<i>PCMTD1</i>	-0,39	2,68E-04	1,12E-02
1660368	<i>PKN1</i>	-0,39	2,66E-04	1,11E-02
3780441	<i>PHLDB2</i>	-0,39	2,65E-04	1,11E-02
2230411	<i>SMEK2</i>	-0,39	2,65E-04	1,11E-02
1850086	<i>HS.547580</i>	-0,39	2,60E-04	1,09E-02
5220504	<i>CHCHD7</i>	-0,39	2,59E-04	1,09E-02
2810687	<i>LRRC14</i>	-0,39	2,57E-04	1,08E-02
5860369	<i>KIAA0564</i>	-0,39	2,54E-04	1,08E-02
3610112	<i>RAB11FIP3</i>	-0,39	2,50E-04	1,06E-02
3120328	<i>GUCY2E</i>	-0,39	2,49E-04	1,06E-02
3370687	<i>CGGBP1</i>	-0,39	2,47E-04	1,05E-02
1580338	<i>KIAA1267</i>	-0,39	2,46E-04	1,05E-02
7400224	<i>CDKN2AIPNL</i>	-0,40	2,39E-04	1,02E-02
7000424	<i>LOC732075</i>	-0,40	2,37E-04	1,02E-02
6960397	<i>EPHX2</i>	-0,40	2,37E-04	1,02E-02
4010411	<i>RHOT1</i>	-0,40	2,35E-04	1,01E-02
150092	<i>RBM33</i>	-0,40	2,35E-04	1,01E-02
2760349	<i>C5ORF33</i>	-0,40	2,34E-04	1,01E-02
3780041	<i>TIAF1</i>	-0,40	2,31E-04	9,98E-03
3460039	<i>RUNDC2C</i>	-0,40	2,31E-04	9,97E-03
1410400	<i>HNRNPU</i>	-0,40	2,28E-04	9,90E-03
6040204	<i>ATP11C</i>	-0,40	2,26E-04	9,83E-03
6510025	<i>NSMCE4A</i>	-0,40	2,22E-04	9,71E-03
870202	<i>TNFSF10</i>	-0,40	2,21E-04	9,67E-03
5960450	<i>SLC35C2</i>	-0,40	2,21E-04	9,66E-03
430400	<i>GLT8D1</i>	-0,40	2,17E-04	9,53E-03
270544	<i>NR2C1</i>	-0,40	2,16E-04	9,49E-03
1580537	<i>PCBP2</i>	-0,40	2,15E-04	9,47E-03
270593	<i>GPER</i>	-0,40	2,15E-04	9,47E-03
3400451	<i>KIF18B</i>	-0,40	2,14E-04	9,45E-03

5420706	<i>LOC643011</i>	-0,40	2,10E-04	9,30E-03
1400025	<i>PTOV1</i>	-0,40	2,10E-04	9,30E-03
7510551	<i>FLJ21986</i>	-0,40	2,09E-04	9,29E-03
5090040	<i>ING1</i>	-0,40	2,08E-04	9,29E-03
990273	<i>RPL37A</i>	-0,40	2,08E-04	9,29E-03
7400100	<i>SUOX</i>	-0,40	2,07E-04	9,26E-03
6130438	<i>GSTCD</i>	-0,40	2,06E-04	9,24E-03
1110221	<i>LOC554235</i>	-0,40	2,05E-04	9,20E-03
1690326	<i>PGRMC2</i>	-0,40	2,05E-04	9,20E-03
2070706	<i>KRIT1</i>	-0,40	2,05E-04	9,19E-03
1090292	<i>BMI1</i>	-0,40	2,03E-04	9,13E-03
6510196	<i>TRIM24</i>	-0,40	2,02E-04	9,08E-03
3180400	<i>EGFL7</i>	-0,40	2,00E-04	9,04E-03
4290349	<i>LOC643949</i>	-0,40	2,00E-04	9,03E-03
240132	<i>ZNF627</i>	-0,40	2,00E-04	9,03E-03
6900437	<i>FLJ40722</i>	-0,40	1,98E-04	8,98E-03
5870403	<i>CEPT1</i>	-0,40	1,98E-04	8,96E-03
1170228	<i>ACY3</i>	-0,40	1,97E-04	8,94E-03
4050195	<i>FAM10A4</i>	-0,40	1,94E-04	8,83E-03
4200605	<i>XRCC2</i>	-0,40	1,92E-04	8,78E-03
3990630	<i>DCDC5</i>	-0,40	1,91E-04	8,74E-03
5270064	<i>SHROOM4</i>	-0,40	1,89E-04	8,67E-03
3800041	<i>RCOR3</i>	-0,40	1,89E-04	8,67E-03
3850273	<i>PEBP1</i>	-0,40	1,88E-04	8,66E-03
110240	<i>C12ORF29</i>	-0,40	1,87E-04	8,62E-03
3440630	<i>ESPN</i>	-0,40	1,84E-04	8,50E-03
5860546	<i>ZNF22</i>	-0,40	1,84E-04	8,49E-03
4220327	<i>MRPL38</i>	-0,40	1,83E-04	8,46E-03
7380390	<i>LOC90586</i>	-0,40	1,82E-04	8,44E-03
5720575	<i>C10ORF114</i>	-0,40	1,82E-04	8,44E-03
4560762	<i>ST13</i>	-0,40	1,81E-04	8,41E-03
7510553	<i>C1ORF83</i>	-0,40	1,79E-04	8,34E-03

2680474	<i>SUMF2</i>	-0,40	1,78E-04	8,34E-03
6130273	<i>FAM76B</i>	-0,40	1,78E-04	8,33E-03
6220180	<i>CABC1</i>	-0,40	1,78E-04	8,32E-03
6220332	<i>SLC6A12</i>	-0,40	1,78E-04	8,32E-03
630634	<i>ZNF544</i>	-0,40	1,77E-04	8,32E-03
620369	<i>PPP2R2B</i>	-0,40	1,73E-04	8,18E-03
5490601	<i>SLC40A1</i>	-0,40	1,71E-04	8,10E-03
730379	<i>LOC388621</i>	-0,40	1,68E-04	8,00E-03
520484	<i>USP15</i>	-0,40	1,68E-04	7,99E-03
4180142	<i>KIAA1370</i>	-0,40	1,66E-04	7,93E-03
3840360	<i>LARP4</i>	-0,40	1,65E-04	7,90E-03
1940494	<i>ZNF133</i>	-0,40	1,65E-04	7,88E-03
380132	<i>ZNF483</i>	-0,40	1,63E-04	7,82E-03
4260093	<i>ZCCHC11</i>	-0,41	1,58E-04	7,63E-03
2480768	<i>DHFRL1</i>	-0,41	1,57E-04	7,61E-03
2480044	<i>MTX2</i>	-0,41	1,57E-04	7,61E-03
5570246	<i>DISP1</i>	-0,41	1,56E-04	7,57E-03
610091	<i>C4ORF8</i>	-0,41	1,51E-04	7,36E-03
5900452	<i>CHST7</i>	-0,41	1,48E-04	7,26E-03
2710324	<i>HELZ</i>	-0,41	1,48E-04	7,25E-03
7000376	<i>C20ORF191</i>	-0,41	1,47E-04	7,22E-03
6760450	<i>CAPS</i>	-0,41	1,46E-04	7,18E-03
1260435	<i>ZNF511</i>	-0,41	1,45E-04	7,12E-03
3800725	<i>SPHK2</i>	-0,41	1,44E-04	7,10E-03
7650343	<i>USP47</i>	-0,41	1,42E-04	7,02E-03
5270139	<i>PEX11G</i>	-0,41	1,40E-04	6,96E-03
6290129	<i>DMD</i>	-0,41	1,40E-04	6,95E-03
6510403	<i>GLULD1</i>	-0,41	1,39E-04	6,93E-03
2000327	<i>GRB14</i>	-0,41	1,39E-04	6,91E-03
3170300	<i>MTSS1</i>	-0,41	1,37E-04	6,85E-03
5570348	<i>SH3RF2</i>	-0,41	1,29E-04	6,51E-03
6960300	<i>HS.279842</i>	-0,41	1,28E-04	6,47E-03

6560327	<i>ACAD10</i>	-0,41	1,27E-04	6,43E-03
4120008	<i>ZNF33B</i>	-0,41	1,27E-04	6,43E-03
2070184	<i>NTHL1</i>	-0,41	1,24E-04	6,32E-03
60403	<i>ZFAND2B</i>	-0,41	1,23E-04	6,31E-03
7610402	<i>HS.561735</i>	-0,41	1,22E-04	6,27E-03
4230228	<i>CDK5RAP3</i>	-0,41	1,22E-04	6,27E-03
1850561	<i>LMOD3</i>	-0,41	1,22E-04	6,27E-03
3450750	<i>ZNF549</i>	-0,41	1,22E-04	6,27E-03
990224	<i>FBXL19</i>	-0,41	1,22E-04	6,27E-03
2060482	<i>KIAA0907</i>	-0,41	1,21E-04	6,24E-03
1570138	<i>APTX</i>	-0,41	1,21E-04	6,24E-03
1820008	<i>METTL7A</i>	-0,41	1,21E-04	6,22E-03
5220309	<i>RILPL1</i>	-0,41	1,19E-04	6,17E-03
2480280	<i>SORD</i>	-0,41	1,18E-04	6,12E-03
3170450	<i>MBTD1</i>	-0,41	1,17E-04	6,10E-03
540382	<i>RSAD1</i>	-0,41	1,17E-04	6,10E-03
1940301	<i>MARVELD2</i>	-0,41	1,17E-04	6,09E-03
1500148	<i>MAP3K7IP1</i>	-0,41	1,17E-04	6,09E-03
3890681	<i>SLC41A3</i>	-0,41	1,16E-04	6,04E-03
6200615	<i>SAPS2</i>	-0,41	1,13E-04	5,94E-03
2510441	<i>TBC1D17</i>	-0,41	1,13E-04	5,94E-03
6550452	<i>ACSM2A</i>	-0,41	1,13E-04	5,94E-03
6020136	<i>FAHD2A</i>	-0,41	1,13E-04	5,94E-03
4040373	<i>TSC1</i>	-0,41	1,13E-04	5,94E-03
1010647	<i>TP53I13</i>	-0,41	1,12E-04	5,91E-03
1580093	<i>SCYL1</i>	-0,41	1,11E-04	5,87E-03
4900474	<i>MED23</i>	-0,41	1,10E-04	5,83E-03
1400435	<i>TOMM70A</i>	-0,41	1,09E-04	5,81E-03
7000240	<i>TTC14</i>	-0,41	1,09E-04	5,81E-03
6940484	<i>ASPSCR1</i>	-0,41	1,09E-04	5,81E-03
3460731	<i>TCP10L</i>	-0,41	1,08E-04	5,78E-03
2340632	<i>INADL</i>	-0,41	1,08E-04	5,77E-03

520017	PAPD5	-0,41	1,07E-04	5,71E-03
1990433	RMI1	-0,41	1,06E-04	5,70E-03
780187	C6ORF130	-0,41	1,06E-04	5,70E-03
5810564	CMBL	-0,42	1,05E-04	5,68E-03
2940372	DTWD2	-0,42	1,05E-04	5,68E-03
6270634	TMEM120A	-0,42	1,05E-04	5,66E-03
6580110	PAH	-0,42	1,04E-04	5,65E-03
770093	HS.160602	-0,42	1,03E-04	5,58E-03
1090646	FAM119A	-0,42	1,02E-04	5,57E-03
4280343	COASY	-0,42	1,02E-04	5,56E-03
1070358	HEXIM2	-0,42	1,01E-04	5,54E-03
290465	FBXW5	-0,42	1,00E-04	5,49E-03
3370128	TNFSF15	-0,42	1,00E-04	5,49E-03
1410152	GJB1	-0,42	9,93E-05	5,45E-03
6280521	LOC648399	-0,42	9,86E-05	5,43E-03
630202	DFNB59	-0,42	9,84E-05	5,43E-03
2570358	HNRPDL	-0,42	9,81E-05	5,42E-03
7570209	ARMC1	-0,42	9,80E-05	5,42E-03
6380673	TUBE1	-0,42	9,70E-05	5,38E-03
2470722	TDRD1	-0,42	9,70E-05	5,38E-03
4810445	PCOLCE2	-0,42	9,69E-05	5,38E-03
2750328	PRNPIP	-0,42	9,67E-05	5,38E-03
2360626	GPR175	-0,42	9,59E-05	5,35E-03
20440	BHMT2	-0,42	9,57E-05	5,34E-03
5290482	IFP38	-0,42	9,50E-05	5,32E-03
6220202	ZADH1	-0,42	9,50E-05	5,32E-03
4590154	ZDHHC8	-0,42	9,34E-05	5,25E-03
2510068	C1ORF51	-0,42	9,14E-05	5,16E-03
6180538	GDI2	-0,42	9,13E-05	5,16E-03
6650564	RPS27	-0,42	9,09E-05	5,15E-03
5560328	SLC38A3	-0,42	9,02E-05	5,12E-03
1850575	CHD6	-0,42	9,01E-05	5,12E-03

1090280	<i>ZNF680</i>	-0,42	8,98E-05	5,12E-03
5810598	<i>HS.556082</i>	-0,42	8,86E-05	5,06E-03
5490593	<i>BDH1</i>	-0,42	8,84E-05	5,06E-03
3290044	<i>TTC27</i>	-0,42	8,58E-05	4,95E-03
6290672	<i>LOC728417</i>	-0,42	8,48E-05	4,89E-03
830609	<i>RPL5</i>	-0,42	8,33E-05	4,82E-03
1030348	<i>CDKN1B</i>	-0,42	8,27E-05	4,80E-03
6180408	<i>NOSIP</i>	-0,42	8,19E-05	4,77E-03
3780411	<i>C1ORF43</i>	-0,42	8,10E-05	4,72E-03
7000672	<i>AGL</i>	-0,42	8,03E-05	4,69E-03
4060692	<i>SUCLG2</i>	-0,42	7,95E-05	4,65E-03
360706	<i>GRTP1</i>	-0,42	7,93E-05	4,65E-03
1710546	<i>CHST12</i>	-0,42	7,83E-05	4,60E-03
630280	<i>PRKCSH</i>	-0,42	7,68E-05	4,54E-03
3870068	<i>NR1I2</i>	-0,42	7,66E-05	4,53E-03
4560288	<i>ERBB3</i>	-0,42	7,59E-05	4,52E-03
7380619	<i>LOC728037</i>	-0,42	7,58E-05	4,52E-03
1170523	<i>TRIM13</i>	-0,42	7,54E-05	4,52E-03
6550754	<i>EVL</i>	-0,42	7,51E-05	4,50E-03
1450403	<i>TMEM129</i>	-0,42	7,30E-05	4,41E-03
7160747	<i>C14ORF153</i>	-0,42	7,27E-05	4,40E-03
6110053	<i>ZNF32</i>	-0,42	7,21E-05	4,38E-03
2600286	<i>CCS</i>	-0,42	7,20E-05	4,37E-03
5090392	<i>GMPR2</i>	-0,42	7,10E-05	4,32E-03
1740300	<i>TFR2</i>	-0,42	7,07E-05	4,32E-03
870390	<i>DEPDC6</i>	-0,42	7,02E-05	4,30E-03
7150132	<i>PNN</i>	-0,42	7,00E-05	4,29E-03
3450537	<i>DGAT2</i>	-0,43	6,75E-05	4,17E-03
6590139	<i>LASS4</i>	-0,43	6,71E-05	4,15E-03
3170519	<i>HARS2</i>	-0,43	6,60E-05	4,08E-03
2000288	<i>CCDC25</i>	-0,43	6,54E-05	4,05E-03
7650504	<i>CTAGE5</i>	-0,43	6,41E-05	4,00E-03

3440431	ZNF682	-0,43	6,40E-05	4,00E-03
5090445	RNF128	-0,43	6,40E-05	4,00E-03
1990468	ADD3	-0,43	6,39E-05	4,00E-03
3310400	IGF1	-0,43	6,37E-05	4,00E-03
6940647	C16ORF58	-0,43	6,37E-05	4,00E-03
4640333	ZNF76	-0,43	6,33E-05	3,99E-03
4900689	LOC63920	-0,43	6,19E-05	3,92E-03
6660201	GCDH	-0,43	6,04E-05	3,84E-03
2690524	BLCAP	-0,43	6,01E-05	3,83E-03
3390187	EFNA1	-0,43	6,00E-05	3,83E-03
540156	PVRL3	-0,43	5,92E-05	3,79E-03
7000341	LOC647834	-0,43	5,89E-05	3,78E-03
1170255	LARGE	-0,43	5,77E-05	3,71E-03
3140022	ZSCAN2	-0,43	5,76E-05	3,71E-03
3940593	MFSD11	-0,43	5,73E-05	3,69E-03
110390	SLC25A34	-0,43	5,62E-05	3,65E-03
1980762	SAT2	-0,43	5,50E-05	3,58E-03
4480575	FOXO4	-0,43	5,50E-05	3,58E-03
3990739	KCNK5	-0,43	5,48E-05	3,57E-03
4150575	LETMD1	-0,43	5,44E-05	3,55E-03
5340450	LOC116236	-0,43	5,40E-05	3,53E-03
6520523	IL27	-0,43	5,34E-05	3,49E-03
4900333	HAGH	-0,43	5,32E-05	3,49E-03
6980156	CIAO1	-0,43	5,32E-05	3,49E-03
1570291	SLTM	-0,43	5,28E-05	3,47E-03
2100215	MAF	-0,43	5,27E-05	3,47E-03
4120341	ITGAE	-0,43	5,23E-05	3,45E-03
3940056	AIG1	-0,43	5,20E-05	3,43E-03
3190626	MAGT1	-0,43	5,02E-05	3,33E-03
2690709	VIPR1	-0,43	4,99E-05	3,32E-03
3170398	MAT2B	-0,43	4,91E-05	3,28E-03
7000224	SIRT1	-0,43	4,90E-05	3,28E-03

670475	<i>C4ORF19</i>	-0,43	4,90E-05	3,28E-03
7610356	<i>SLC22A2</i>	-0,43	4,79E-05	3,22E-03
50601	<i>PURA</i>	-0,43	4,69E-05	3,15E-03
6550689	<i>WDR23</i>	-0,43	4,64E-05	3,13E-03
10343	<i>MRPS5</i>	-0,43	4,58E-05	3,10E-03
3440500	<i>ELP3</i>	-0,43	4,54E-05	3,08E-03
1170709	<i>CDH2</i>	-0,43	4,52E-05	3,07E-03
5270743	<i>PTPRA</i>	-0,43	4,44E-05	3,01E-03
6900014	<i>RNUXA</i>	-0,44	4,42E-05	3,01E-03
5260440	<i>ST3GAL6</i>	-0,44	4,42E-05	3,01E-03
20348	<i>HS.340945</i>	-0,44	4,41E-05	3,01E-03
2100347	<i>ZNF384</i>	-0,44	4,40E-05	3,01E-03
3390348	<i>KIAA1772</i>	-0,44	4,35E-05	3,00E-03
5820343	<i>ERCC5</i>	-0,44	4,34E-05	3,00E-03
4220053	<i>SKAP1</i>	-0,44	4,19E-05	2,91E-03
5260343	<i>SCG5</i>	-0,44	4,19E-05	2,91E-03
3140167	<i>ZNF146</i>	-0,44	4,10E-05	2,86E-03
2600072	<i>BOK</i>	-0,44	4,09E-05	2,86E-03
7150240	<i>TRIM2</i>	-0,44	4,06E-05	2,84E-03
2470577	<i>ZCWPW1</i>	-0,44	4,04E-05	2,83E-03
3930333	<i>HS.28705</i>	-0,44	4,02E-05	2,83E-03
3850730	<i>BSN</i>	-0,44	3,96E-05	2,79E-03
5310767	<i>LRP5</i>	-0,44	3,92E-05	2,77E-03
4290110	<i>CYP4F3</i>	-0,44	3,87E-05	2,75E-03
6420450	<i>LIME1</i>	-0,44	3,84E-05	2,74E-03
610768	<i>TAPT1</i>	-0,44	3,78E-05	2,73E-03
1190221	<i>REXO4</i>	-0,44	3,75E-05	2,71E-03
70520	<i>FGFR4</i>	-0,44	3,75E-05	2,71E-03
2230424	<i>RBM25</i>	-0,44	3,74E-05	2,71E-03
2100546	<i>ALDH8A1</i>	-0,44	3,66E-05	2,67E-03
4890553	<i>RORC</i>	-0,44	3,65E-05	2,67E-03
7040307	<i>UQCC</i>	-0,44	3,54E-05	2,60E-03

6590082	<i>HS.542993</i>	-0,44	3,51E-05	2,58E-03
1260327	<i>DOCK4</i>	-0,44	3,48E-05	2,57E-03
5080682	<i>CTDSP1</i>	-0,44	3,47E-05	2,56E-03
5810113	<i>HS.282795</i>	-0,44	3,46E-05	2,56E-03
6130020	<i>BLZF1</i>	-0,44	3,46E-05	2,56E-03
870451	<i>ASB8</i>	-0,44	3,42E-05	2,54E-03
3130296	<i>AMY2A</i>	-0,44	3,39E-05	2,52E-03
2640463	<i>LOC652541</i>	-0,44	3,38E-05	2,52E-03
3610519	<i>OFD1</i>	-0,44	3,37E-05	2,52E-03
3190048	<i>ZNF688</i>	-0,44	3,30E-05	2,47E-03
5490603	<i>LOC401019</i>	-0,44	3,26E-05	2,46E-03
2810709	<i>SLC22A7</i>	-0,44	3,24E-05	2,45E-03
520706	<i>UBE4A</i>	-0,44	3,24E-05	2,45E-03
4050491	<i>TCEA3</i>	-0,44	3,22E-05	2,44E-03
6860026	<i>ZNF358</i>	-0,44	3,13E-05	2,38E-03
6040017	<i>FLJ20699</i>	-0,44	3,11E-05	2,37E-03
6840356	<i>MGEA5</i>	-0,44	3,05E-05	2,33E-03
1410736	<i>TMEM42</i>	-0,44	2,98E-05	2,29E-03
1170398	<i>C10ORF57</i>	-0,44	2,89E-05	2,23E-03
2350044	<i>LIPC</i>	-0,44	2,87E-05	2,23E-03
5720474	<i>TMCO6</i>	-0,44	2,83E-05	2,21E-03
1430053	<i>TTLL12</i>	-0,44	2,82E-05	2,21E-03
3450086	<i>LOC149134</i>	-0,44	2,81E-05	2,20E-03
510209	<i>LOC643310</i>	-0,45	2,74E-05	2,16E-03
6450300	<i>GEMIN4</i>	-0,45	2,73E-05	2,15E-03
3870301	<i>SORBS3</i>	-0,45	2,72E-05	2,15E-03
4210687	<i>ZNF485</i>	-0,45	2,54E-05	2,04E-03
4060433	<i>MAOB</i>	-0,45	2,45E-05	1,98E-03
630215	<i>RAD51</i>	-0,45	2,45E-05	1,98E-03
1400070	<i>TBC1D9</i>	-0,45	2,36E-05	1,93E-03
7510634	<i>GPRC5C</i>	-0,45	2,33E-05	1,91E-03
6380010	<i>HS.222909</i>	-0,45	2,32E-05	1,91E-03

4070193	<i>HS.291319</i>	-0,45	2,32E-05	1,91E-03
2570577	<i>KLF15</i>	-0,45	2,31E-05	1,90E-03
6660544	<i>C10ORF65</i>	-0,45	2,30E-05	1,90E-03
5340719	<i>HS.163752</i>	-0,45	2,27E-05	1,88E-03
2000669	<i>ARHGAP10</i>	-0,45	2,27E-05	1,88E-03
2140753	<i>RPL14</i>	-0,45	2,23E-05	1,85E-03
4120722	<i>NOL8</i>	-0,45	2,22E-05	1,85E-03
5290193	<i>KCTD6</i>	-0,45	2,20E-05	1,83E-03
4610484	<i>C14ORF93</i>	-0,45	2,17E-05	1,81E-03
6060402	<i>HS.571741</i>	-0,45	2,11E-05	1,77E-03
2940528	<i>OPRS1</i>	-0,45	2,10E-05	1,76E-03
1240446	<i>CAT</i>	-0,45	2,10E-05	1,76E-03
3180154	<i>HFE2</i>	-0,45	2,07E-05	1,75E-03
620202	<i>OSGIN1</i>	-0,45	2,07E-05	1,75E-03
10594	<i>PECI</i>	-0,45	2,02E-05	1,72E-03
1510722	<i>RNF130</i>	-0,45	1,99E-05	1,70E-03
5290762	<i>UTS2</i>	-0,45	1,96E-05	1,68E-03
1050386	<i>SMUG1</i>	-0,45	1,94E-05	1,67E-03
4560497	<i>ETNK2</i>	-0,45	1,91E-05	1,66E-03
5420373	<i>FUT6</i>	-0,45	1,91E-05	1,66E-03
520053	<i>OXER1</i>	-0,45	1,86E-05	1,63E-03
5810059	<i>HS.18849</i>	-0,45	1,85E-05	1,62E-03
1170482	<i>PEX14</i>	-0,45	1,76E-05	1,55E-03
1070709	<i>PLEKHH3</i>	-0,46	1,71E-05	1,52E-03
2710196	<i>UTP6</i>	-0,46	1,71E-05	1,52E-03
1430767	<i>ING4</i>	-0,46	1,71E-05	1,52E-03
1820482	<i>NDUFB10</i>	-0,46	1,71E-05	1,52E-03
840358	<i>EXOSC10</i>	-0,46	1,69E-05	1,51E-03
2470634	<i>PBX3</i>	-0,46	1,69E-05	1,51E-03
5290403	<i>WDR59</i>	-0,46	1,68E-05	1,51E-03
670273	<i>DPYD</i>	-0,46	1,65E-05	1,49E-03
2140600	<i>TTC36</i>	-0,46	1,59E-05	1,44E-03

7380202	<i>NR2F2</i>	-0,46	1,56E-05	1,42E-03
6620050	<i>IFFO</i>	-0,46	1,55E-05	1,42E-03
2900079	<i>LOC647389</i>	-0,46	1,55E-05	1,42E-03
3420195	<i>ATPBD1B</i>	-0,46	1,54E-05	1,42E-03
6650324	<i>PLEKHA1</i>	-0,46	1,54E-05	1,42E-03
6650121	<i>C1ORF71</i>	-0,46	1,54E-05	1,42E-03
1850360	<i>EIF4EBP3</i>	-0,46	1,51E-05	1,40E-03
2810615	<i>GRB10</i>	-0,46	1,50E-05	1,39E-03
4560019	<i>MBOAT2</i>	-0,46	1,48E-05	1,38E-03
7650615	<i>GRHPR</i>	-0,46	1,46E-05	1,36E-03
5820427	<i>PDIK1L</i>	-0,46	1,45E-05	1,36E-03
3180347	<i>LOC285359</i>	-0,46	1,45E-05	1,36E-03
2480132	<i>LOC554203</i>	-0,46	1,44E-05	1,36E-03
1010600	<i>LRRC3</i>	-0,46	1,43E-05	1,34E-03
2320392	<i>C12ORF65</i>	-0,46	1,37E-05	1,29E-03
3830519	<i>MKKS</i>	-0,46	1,33E-05	1,27E-03
840021	<i>LOC643692</i>	-0,46	1,33E-05	1,27E-03
3940309	<i>CDAN1</i>	-0,46	1,21E-05	1,17E-03
1770079	<i>LOC440350</i>	-0,46	1,21E-05	1,17E-03
1580356	<i>TMED1</i>	-0,46	1,21E-05	1,17E-03
7550431	<i>REV1</i>	-0,46	1,20E-05	1,17E-03
1440091	<i>GON4L</i>	-0,46	1,20E-05	1,17E-03
3290475	<i>NFYC</i>	-0,46	1,18E-05	1,15E-03
5130682	<i>PRNPIP</i>	-0,46	1,17E-05	1,15E-03
7570553	<i>POLM</i>	-0,46	1,16E-05	1,14E-03
7560164	<i>GCAT</i>	-0,46	1,16E-05	1,14E-03
7040519	<i>FOLH1</i>	-0,46	1,11E-05	1,11E-03
2000494	<i>AR</i>	-0,47	1,08E-05	1,08E-03
1660564	<i>SLC6A1</i>	-0,47	1,05E-05	1,06E-03
60427	<i>NUCB2</i>	-0,47	1,05E-05	1,05E-03
6450605	<i>DDOST</i>	-0,47	1,03E-05	1,03E-03
450445	<i>NSUN5</i>	-0,47	9,90E-06	1,00E-03

7650689	<i>HS.310040</i>	-0,47	9,83E-06	1,00E-03
7380291	<i>CYP2D7P1</i>	-0,47	9,77E-06	1,00E-03
6940474	<i>HS.317399</i>	-0,47	9,69E-06	9,94E-04
3370215	<i>ZG16</i>	-0,47	9,24E-06	9,59E-04
870528	<i>HS.16587</i>	-0,47	9,22E-06	9,58E-04
7550292	<i>SELENBP1</i>	-0,47	9,19E-06	9,57E-04
3780240	<i>FLJ39653</i>	-0,47	9,15E-06	9,55E-04
4060768	<i>DBT</i>	-0,47	8,52E-06	9,02E-04
1440133	<i>NGFRAP1</i>	-0,47	8,17E-06	8,69E-04
6760661	<i>CAPN5</i>	-0,47	7,39E-06	7,99E-04
1710639	<i>RBM4B</i>	-0,47	7,26E-06	7,92E-04
2750170	<i>SORBS2</i>	-0,47	7,04E-06	7,73E-04
2810367	<i>ABCB6</i>	-0,47	6,67E-06	7,43E-04
4880113	<i>LOC649639</i>	-0,48	6,25E-06	7,09E-04
6510600	<i>MLLT10</i>	-0,48	6,01E-06	6,86E-04
2900253	<i>HS.487766</i>	-0,48	5,96E-06	6,82E-04
2070735	<i>STAG3L1</i>	-0,48	5,91E-06	6,78E-04
5860307	<i>PRKAB2</i>	-0,48	5,89E-06	6,77E-04
1300041	<i>C19ORF42</i>	-0,48	5,80E-06	6,71E-04
3420553	<i>ENPP1</i>	-0,48	5,79E-06	6,71E-04
2260181	<i>SLC38A4</i>	-0,48	5,47E-06	6,38E-04
3310592	<i>ZNF394</i>	-0,48	5,13E-06	6,08E-04
1510554	<i>SPIN3</i>	-0,48	5,09E-06	6,06E-04
6980377	<i>MTMR15</i>	-0,48	5,08E-06	6,06E-04
5130438	<i>PIPOX</i>	-0,48	4,50E-06	5,52E-04
6660240	<i>FGFR4</i>	-0,48	4,36E-06	5,38E-04
2970167	<i>NSUN5C</i>	-0,48	4,35E-06	5,38E-04
6620201	<i>KLHL24</i>	-0,48	4,31E-06	5,35E-04
5290474	<i>SMARCA2</i>	-0,48	4,14E-06	5,20E-04
3190066	<i>ARFGAP2</i>	-0,48	4,02E-06	5,08E-04
1230347	<i>RERE</i>	-0,49	3,77E-06	4,80E-04
4040719	<i>BA16L21.2.1</i>	-0,49	3,72E-06	4,75E-04

4060136	<i>SLTM</i>	-0,49	3,69E-06	4,72E-04
2940113	<i>AGL</i>	-0,49	3,68E-06	4,72E-04
270093	<i>MYO18A</i>	-0,49	3,61E-06	4,67E-04
580598	<i>ANKZF1</i>	-0,49	3,56E-06	4,63E-04
4060669	<i>CCDC76</i>	-0,49	3,53E-06	4,61E-04
4570575	<i>ST7</i>	-0,49	3,42E-06	4,52E-04
3140408	<i>PPP1R16A</i>	-0,49	3,15E-06	4,22E-04
4250167	<i>SOX13</i>	-0,49	3,03E-06	4,09E-04
1780348	<i>FH</i>	-0,49	2,98E-06	4,03E-04
6330653	<i>FLJ45244</i>	-0,49	2,92E-06	3,97E-04
6060601	<i>HS.536664</i>	-0,49	2,79E-06	3,83E-04
130041	<i>NR1I3</i>	-0,49	2,78E-06	3,82E-04
2230376	<i>C4ORF34</i>	-0,49	2,73E-06	3,78E-04
3800079	<i>C19ORF56</i>	-0,49	2,60E-06	3,63E-04
830598	<i>CLK2</i>	-0,49	2,54E-06	3,56E-04
1770148	<i>FLJ20444</i>	-0,49	2,40E-06	3,38E-04
7200195	<i>TBX3</i>	-0,49	2,39E-06	3,38E-04
1710168	<i>NDUFS3</i>	-0,50	2,23E-06	3,22E-04
4480519	<i>EDEM2</i>	-0,50	2,22E-06	3,21E-04
3140138	<i>C12ORF47</i>	-0,50	2,18E-06	3,18E-04
5340138	<i>MRPS18B</i>	-0,50	2,16E-06	3,17E-04
6290575	<i>ABCG5</i>	-0,50	2,11E-06	3,11E-04
240035	<i>RUNDC3B</i>	-0,50	2,08E-06	3,06E-04
5810273	<i>LOC492311</i>	-0,50	2,08E-06	3,06E-04
2710358	<i>ENOSF1</i>	-0,50	1,79E-06	2,72E-04
2370594	<i>GSTA5</i>	-0,50	1,65E-06	2,55E-04
7100274	<i>ALDH6A1</i>	-0,50	1,62E-06	2,50E-04
4280167	<i>ZNF500</i>	-0,50	1,58E-06	2,47E-04
5490270	<i>LOC92270</i>	-0,50	1,54E-06	2,42E-04
5390148	<i>LOC642333</i>	-0,50	1,49E-06	2,35E-04
7210092	<i>TRIT1</i>	-0,50	1,48E-06	2,34E-04
3780068	<i>ATPIF1</i>	-0,50	1,36E-06	2,18E-04

2490730	<i>SF4</i>	-0,51	1,27E-06	2,07E-04
4850576	<i>SLCO1B3</i>	-0,51	1,26E-06	2,06E-04
1090367	<i>BIVM</i>	-0,51	1,23E-06	2,03E-04
2070279	<i>PIGV</i>	-0,51	1,19E-06	1,98E-04
650020	<i>SYNJ1</i>	-0,51	1,17E-06	1,96E-04
2120068	<i>MTMR4</i>	-0,51	9,98E-07	1,72E-04
7000474	<i>GARNL1</i>	-0,51	9,37E-07	1,63E-04
870181	<i>LOC653314</i>	-0,51	9,30E-07	1,62E-04
5390372	<i>C2ORF64</i>	-0,51	9,25E-07	1,62E-04
2640619	<i>ZNF91</i>	-0,51	8,92E-07	1,56E-04
3990608	<i>MAN2A1</i>	-0,51	7,69E-07	1,38E-04
5870605	<i>HS.145049</i>	-0,51	7,68E-07	1,38E-04
6580612	<i>NUP43</i>	-0,51	7,55E-07	1,38E-04
3190338	<i>HDHD3</i>	-0,52	7,33E-07	1,34E-04
5820202	<i>LOC644131</i>	-0,52	6,70E-07	1,25E-04
4850538	<i>PAOX</i>	-0,52	5,78E-07	1,10E-04
5090603	<i>FAM73B</i>	-0,52	5,57E-07	1,08E-04
4260377	<i>HAX1</i>	-0,52	5,26E-07	1,04E-04
2070189	<i>ZNF451</i>	-0,52	4,50E-07	9,07E-05
5810619	<i>TADA1L</i>	-0,52	4,44E-07	8,98E-05
6450722	<i>SETDB1</i>	-0,53	3,87E-07	8,11E-05
6350341	<i>SDHAP3</i>	-0,53	3,22E-07	6,92E-05
6480674	<i>HCN3</i>	-0,53	3,08E-07	6,82E-05
7320646	<i>EPB41L5</i>	-0,53	2,88E-07	6,53E-05
7550192	<i>SLC16A10</i>	-0,53	2,41E-07	5,61E-05
1470753	<i>PIK3R1</i>	-0,53	2,41E-07	5,61E-05
2100431	<i>RCN3</i>	-0,53	2,38E-07	5,61E-05
1090204	<i>TTC17</i>	-0,54	1,99E-07	4,92E-05
1980180	<i>C9ORF95</i>	-0,54	1,86E-07	4,69E-05
2630619	<i>RNF20</i>	-0,54	1,83E-07	4,65E-05
70161	<i>PKD2</i>	-0,54	1,64E-07	4,27E-05
1580601	<i>USPL1</i>	-0,54	1,58E-07	4,18E-05

5960196	MOGAT1	-0,54	1,35E-07	3,75E-05
940500	CLDN14	-0,54	1,34E-07	3,74E-05
6060553	RBP5	-0,55	9,86E-08	3,02E-05
670397	BRD8	-0,55	9,70E-08	3,00E-05
4070091	RORC	-0,55	9,08E-08	2,87E-05
1170112	LCAT	-0,55	8,69E-08	2,82E-05
1190673	LMAN2L	-0,55	8,46E-08	2,79E-05
4060543	SEMA4G	-0,55	7,59E-08	2,60E-05
5960678	NISCH	-0,55	6,62E-08	2,39E-05
7210300	C10ORF104	-0,55	6,62E-08	2,39E-05
6980253	PTPLB	-0,56	5,73E-08	2,12E-05
3830661	HS.298873	-0,56	4,49E-08	1,74E-05
6350360	IMPA1	-0,56	3,43E-08	1,38E-05
3840463	TADA1L	-0,56	3,36E-08	1,37E-05
2060228	RNF43	-0,57	3,12E-08	1,29E-05
2810364	KLHDC2	-0,57	3,11E-08	1,29E-05
1430735	NET1	-0,57	2,93E-08	1,25E-05
1400541	SLC6A13	-0,57	2,45E-08	1,07E-05
5420719	C2ORF42	-0,57	1,77E-08	8,15E-06
4890167	CHAD	-0,58	8,42E-09	4,46E-06
5720154	ZBTB48	-0,59	6,44E-09	3,64E-06
4480114	F11	-0,60	3,33E-09	2,28E-06
5490524	ZNF302	-0,60	2,34E-09	1,73E-06
4120753	ZZZ3	-0,62	6,76E-10	6,32E-07
4040520	HAO2	-0,62	6,17E-10	5,90E-07
4810433	MTMR10	-0,64	1,03E-10	1,67E-07
3710711	STAG3L2	-0,66	1,88E-11	3,99E-08
6510661	SS18L1	-0,67	7,72E-12	2,22E-08

S6. DE genes between KD1 vs Mock and KD2 vs mock in HepG2 after Inc18q22.2 knockdown. 1821 genes were overlapping between KD1 vs Mock and KD2 vs Mock from which 1625 were in the same direction (this table) and 196 in opposite direction. All genes are significant at FDR<0.01.

Ensembl Gene ID	Official gene name	KD1 vs Mock (HepG2)		KD2 vs Mock (HepG2)	
		Log2 Fold Change	FDR	Log2 Fold Change	FDR
ENSG00000132031	<i>MATN3</i>	-3,73	0,00E+00	-2,77	1,01E-252
ENSG00000135919	<i>SERPINE2</i>	-2,92	7,17E-165	-2,85	5,18E-156
ENSG00000196136	<i>SERPINA3</i>	-3,53	1,17E-133	-3,81	2,62E-154
ENSG00000103888	<i>KIAA1199</i>	-2,58	1,31E-161	-2,16	1,90E-118
ENSG00000116016	<i>EPAS1</i>	-0,90	1,70E-51	-1,31	2,10E-106
ENSG00000137801	<i>THBS1</i>	-1,17	1,03E-45	-1,73	2,38E-93
ENSG00000115594	<i>IL1R1</i>	-0,89	9,34E-28	-1,62	4,80E-85
ENSG00000124762	<i>CDKN1A</i>	-0,46	6,45E-09	-1,49	2,86E-79
ENSG00000167658	<i>EEF2</i>	-0,42	3,76E-16	-0,94	2,37E-77
ENSG00000147403	<i>RPL10</i>	-0,51	4,27E-19	-1,04	1,83E-75
ENSG00000155093	<i>PTPRN2</i>	-1,66	6,09E-71	-1,64	2,08E-68
ENSG00000117394	<i>SLC2A1</i>	-2,98	0,00E+00	-1,10	6,59E-66
ENSG00000179218	<i>CALR</i>	-0,20	3,15E-03	-1,04	1,51E-62
ENSG00000257017	<i>HP</i>	-0,45	2,13E-08	-1,30	1,03E-61
ENSG00000108175	<i>ZMIZ1</i>	-0,45	1,81E-08	-1,33	7,72E-61
ENSG00000118523	<i>CTGF</i>	-1,95	8,34E-49	-2,17	6,74E-60
ENSG00000146072	<i>TNFRSF21</i>	-1,43	1,42E-69	-1,32	6,61E-59
ENSG00000171617	<i>ENC1</i>	-1,62	9,68E-116	-1,12	2,28E-56
ENSG00000188157	<i>AGRN</i>	-1,68	1,45E-125	-1,06	3,69E-52
ENSG00000139514	<i>SLC7A1</i>	-1,03	6,47E-47	-1,10	4,54E-52
ENSG00000108932	<i>LOC440459</i>	-2,76	3,25E-152	-1,43	4,12E-49
ENSG00000144677	<i>CTDSPL</i>	-1,77	1,27E-79	-1,37	1,36E-48
ENSG00000142178	<i>SIK1</i>	-1,69	1,51E-61	-1,48	3,27E-47
ENSG00000103257	<i>SLC7A5</i>	-0,31	2,84E-05	-1,01	1,12E-46
ENSG00000069702	<i>TGFB3</i>	-1,73	4,78E-117	-1,07	6,89E-46
ENSG00000130513	<i>GDF15</i>	-1,90	1,15E-164	-0,98	1,20E-45
ENSG00000140807	<i>NKD1</i>	-0,66	2,60E-13	-1,24	4,35E-43
ENSG00000131016	<i>AKAP12</i>	-2,23	1,13E-189	-1,01	3,25E-41

ENSG00000142541	<i>RPL13A</i>	-0,78	1,99E-43	-0,76	1,49E-40
ENSG00000198561	<i>CTNND1</i>	-0,56	1,71E-17	-0,86	3,42E-40
ENSG00000143878	<i>RHOB</i>	-0,29	3,97E-04	-1,02	6,81E-40
ENSG00000185269	<i>NOTUM</i>	-2,01	6,04E-91	-1,31	1,09E-39
ENSG00000125730	<i>C3</i>	-0,70	1,81E-22	-0,94	3,12E-39
ENSG00000087916	<i>SLC6A14</i>	-3,15	1,12E-65	-2,26	3,19E-39
ENSG00000116285	<i>ERRFI1</i>	-1,82	3,94E-96	-1,16	5,61E-39
ENSG00000156535	<i>CD109</i>	-1,58	1,33E-28	-1,90	2,34E-38
ENSG00000171552	<i>BCL2L1</i>	-0,50	5,19E-18	-0,73	1,69E-36
ENSG00000021300	<i>PLEKHB1</i>	-1,17	8,76E-24	-1,50	2,97E-36
ENSG00000142534	<i>RPS11</i>	-0,76	3,65E-41	-0,71	4,87E-36
ENSG00000104760	<i>FGL1</i>	-0,77	1,56E-22	-0,98	9,83E-36
ENSG00000168386	<i>FILIP1L</i>	-2,66	3,09E-141	-1,29	1,13E-35
ENSG00000160862	<i>AZGP1</i>	-0,66	9,96E-12	-1,21	6,75E-35
ENSG00000118785	<i>SPP1</i>	-0,85	1,61E-22	-1,06	2,35E-34
ENSG00000112414	<i>GPR126</i>	-1,32	1,86E-78	-0,87	4,08E-34
ENSG00000101346	<i>POFUT1</i>	-0,55	1,58E-11	-0,98	1,35E-33
ENSG00000096433	<i>ITPR3</i>	-1,66	5,40E-51	-1,33	2,77E-33
ENSG00000115414	<i>FN1</i>	-1,07	2,14E-61	-0,79	2,78E-33
ENSG00000169696	<i>ASPSCR1</i>	-1,09	1,31E-34	-1,07	2,91E-33
ENSG00000106804	<i>C5</i>	-1,44	4,65E-97	-0,84	5,17E-33
ENSG00000049759	<i>NEDD4L</i>	-0,30	4,50E-05	-0,85	7,14E-33
ENSG00000166900	<i>STX3</i>	-0,72	4,42E-10	-1,40	1,55E-32
ENSG00000175061	<i>NCRNA00188</i>	-0,65	1,37E-16	-0,93	5,19E-32
ENSG00000083845	<i>RPS5</i>	-0,69	1,09E-26	-0,76	8,77E-32
ENSG00000132688	<i>NES</i>	-1,89	2,37E-62	-1,30	1,90E-31
ENSG00000173706	<i>HEG1</i>	-0,95	3,24E-29	-1,00	2,59E-31
ENSG00000197122	<i>SRC</i>	-0,85	7,30E-29	-0,89	5,53E-31
ENSG00000152291	<i>TGOLN2</i>	-0,44	9,26E-13	-0,71	1,05E-30
ENSG00000141458	<i>NPC1</i>	-0,99	9,75E-38	-0,89	2,02E-30
ENSG00000124766	<i>SOX4</i>	-1,03	1,28E-14	-1,56	3,46E-30
ENSG00000167470	<i>MIDN</i>	-0,99	1,98E-28	-1,02	1,23E-29

ENSG00000175215	<i>CTDSP2</i>	-0,28	4,77E-04	-0,85	1,35E-29
ENSG00000168497	<i>SDPR</i>	-1,04	9,39E-23	-1,22	1,65E-29
ENSG00000136689	<i>IL1RN</i>	-0,68	7,40E-18	-0,90	1,83E-29
ENSG00000116194	<i>ANGPTL1</i>	-2,62	9,02E-43	-2,07	1,53E-28
ENSG00000130741	<i>EIF2S3</i>	-0,75	5,41E-25	-0,81	3,92E-28
ENSG00000080618	<i>CPB2</i>	-0,55	1,36E-07	-1,15	3,95E-28
ENSG00000082781	<i>ITGB5</i>	-1,07	1,27E-51	-0,78	4,81E-28
ENSG00000117289	<i>TXNIP</i>	-1,13	6,69E-31	-1,08	5,06E-28
ENSG00000231500	<i>RPS18</i>	-0,78	2,14E-42	-0,62	5,50E-27
ENSG00000147526	<i>TACC1</i>	-1,34	4,34E-39	-1,10	1,14E-26
ENSG00000141429	<i>GALNT1</i>	-0,43	3,95E-08	-0,83	1,23E-26
ENSG00000057019	<i>DCBLD2</i>	-0,87	4,20E-31	-0,81	2,60E-26
ENSG00000155090	<i>KLF10</i>	-1,13	1,95E-24	-1,18	3,97E-26
ENSG00000076356	<i>PLXNA2</i>	-0,34	4,44E-03	-1,22	5,54E-26
ENSG00000169242	<i>EFNA1</i>	-1,18	2,91E-46	-0,88	7,64E-26
ENSG00000129422	<i>MTUS1</i>	-1,13	2,24E-55	-0,77	7,77E-26
ENSG00000063046	<i>EIF4B</i>	-0,39	5,20E-10	-0,65	8,41E-26
ENSG00000176619	<i>LMNB2</i>	-0,38	1,32E-04	-0,98	8,98E-26
ENSG00000184840	<i>TMED9</i>	-0,51	7,17E-13	-0,73	4,68E-25
ENSG00000115363	<i>FAM176A</i>	-0,66	1,69E-09	-1,15	4,69E-25
ENSG00000111371	<i>SLC38A1</i>	-1,10	1,11E-63	-0,69	5,46E-25
ENSG00000134109	<i>EDEM1</i>	-0,30	9,48E-04	-0,89	7,21E-25
ENSG00000114698	<i>PLSCR4</i>	-2,67	9,76E-44	-1,89	3,08E-24
ENSG00000143515	<i>ATP8B2</i>	-0,56	1,62E-10	-0,90	3,18E-24
ENSG00000146859	<i>TMEM140</i>	-0,47	9,12E-04	-1,40	4,60E-24
ENSG00000013364	<i>MVP</i>	-0,53	5,07E-07	-1,05	8,04E-24
ENSG00000108375	<i>RNF43</i>	-0,52	2,35E-10	-0,81	1,28E-23
ENSG00000142871	<i>CYR61</i>	-1,63	9,30E-37	-1,29	1,66E-23
ENSG00000188846	<i>RPL14</i>	-0,57	1,48E-21	-0,60	1,73E-23
ENSG00000159674	<i>SPON2</i>	-1,31	3,34E-24	-1,31	1,82E-23
ENSG00000145592	<i>RPL37</i>	-1,00	7,95E-47	-0,71	2,03E-23
ENSG00000100097	<i>LGALS1</i>	-1,35	3,41E-44	-0,96	2,55E-23

ENSG00000113739	<i>STC2</i>	-1,67	5,88E-69	-0,95	2,63E-23
ENSG00000003989	<i>SLC7A2</i>	-1,78	1,99E-88	-0,90	2,88E-23
ENSG00000142949	<i>PTPRF</i>	-0,59	2,39E-16	-0,71	3,11E-23
ENSG00000170889	<i>RPS9</i>	-0,66	1,45E-28	-0,59	4,13E-23
ENSG00000070756	<i>PABPC1</i>	-0,64	4,84E-24	-0,63	5,71E-23
ENSG00000111859	<i>NEDD9</i>	-1,58	1,20E-72	-0,88	8,09E-23
ENSG00000213853	<i>EMP2</i>	-0,92	9,23E-18	-1,06	1,59E-22
ENSG00000169100	<i>SLC25A6</i>	-0,68	1,55E-22	-0,68	1,97E-22
ENSG00000094975	<i>C1ORF9</i>	-0,30	5,53E-03	-0,99	2,25E-22
ENSG00000171314	<i>PGAM1</i>	-1,20	6,56E-48	-0,81	2,93E-22
ENSG00000102934	<i>PLLP</i>	-0,63	3,79E-10	-0,99	3,51E-22
ENSG00000244731	<i>C4A</i>	-0,25	4,37E-03	-0,79	4,16E-22
ENSG00000148411	<i>NACC2</i>	-0,32	8,63E-03	-1,09	4,48E-22
ENSG00000172175	<i>MALT1</i>	-0,94	6,52E-23	-0,93	4,96E-22
ENSG00000155380	<i>SLC16A1</i>	-1,06	1,04E-44	-0,74	5,36E-22
ENSG00000114942	<i>EEF1B2</i>	-0,49	1,12E-16	-0,57	6,91E-22
ENSG00000105193	<i>RPS16</i>	-0,64	9,62E-19	-0,69	9,42E-22
ENSG00000130147	<i>SH3BP4</i>	-0,64	4,18E-17	-0,73	1,26E-21
ENSG00000068650	<i>ATP11A</i>	-0,78	4,15E-22	-0,78	1,27E-21
ENSG00000063177	<i>RPL18</i>	-0,55	2,18E-17	-0,62	2,05E-21
ENSG00000096696	<i>DSP</i>	-1,07	1,91E-54	-0,67	2,31E-21
ENSG00000198355	<i>PIM3</i>	-1,41	5,25E-27	-1,26	2,73E-21
ENSG00000205403	<i>CFI</i>	-0,45	1,88E-07	-0,80	2,73E-21
ENSG00000113719	<i>ERGIC1</i>	-0,57	1,66E-14	-0,71	3,09E-21
ENSG00000164733	<i>CTSB</i>	-0,26	2,41E-05	-0,57	3,26E-21
ENSG00000112306	<i>RPS12</i>	-0,85	2,44E-42	-0,60	3,86E-21
ENSG00000106546	<i>AHR</i>	-1,04	6,73E-34	-0,82	4,45E-21
ENSG00000106034	<i>C7ORF58</i>	-1,08	2,05E-27	-0,95	4,62E-21
ENSG00000079385	<i>CEACAM1</i>	-1,34	3,18E-58	-0,79	5,13E-21
ENSG00000164587	<i>RPS14</i>	-0,57	6,08E-20	-0,59	7,99E-21
ENSG00000106392	<i>C1GALT1</i>	-1,04	9,31E-32	-0,83	1,13E-20
ENSG00000088930	<i>XRN2</i>	-0,27	1,42E-04	-0,63	1,42E-20

ENSG00000182871	<i>COL18A1</i>	-0,77	9,83E-18	-0,84	1,44E-20
ENSG00000196576	<i>PLXNB2</i>	-0,31	1,41E-04	-0,72	1,90E-20
ENSG00000065308	<i>TRAM2</i>	-0,42	3,17E-11	-0,58	1,95E-20
ENSG00000078269	<i>SYNJ2</i>	-1,19	6,03E-61	-0,68	2,05E-20
ENSG00000138434	<i>SSFA2</i>	-0,35	1,21E-05	-0,72	2,33E-20
ENSG00000128272	<i>ATF4</i>	-0,44	2,25E-13	-0,56	2,43E-20
ENSG00000124614	<i>RPS10</i>	-0,73	1,11E-33	-0,56	2,71E-20
ENSG00000149273	<i>RPS3</i>	-0,52	4,27E-20	-0,53	3,11E-20
ENSG00000127863	<i>TNFRSF19</i>	-1,20	2,20E-43	-0,80	4,15E-20
ENSG00000162244	<i>RPL29</i>	-0,74	5,98E-39	-0,52	8,90E-20
ENSG00000053254	<i>FOXN3</i>	-0,71	6,71E-24	-0,65	9,43E-20
ENSG00000133657	<i>ATP13A3</i>	-0,81	3,77E-26	-0,70	1,01E-19
ENSG00000115840	<i>SLC25A12</i>	-0,79	2,59E-07	-1,40	1,16E-19
ENSG00000198034	<i>RPS4X</i>	-0,53	5,98E-15	-0,61	1,21E-19
ENSG00000070614	<i>NDST1</i>	-0,33	7,34E-05	-0,73	1,22E-19
ENSG00000188760	<i>TMEM198</i>	-0,58	1,29E-05	-1,21	1,52E-19
ENSG00000173599	<i>PC</i>	-0,62	6,52E-16	-0,70	1,54E-19
ENSG00000136237	<i>RAPGEF5</i>	-0,84	1,11E-18	-0,87	2,19E-19
ENSG00000184384	<i>MAML2</i>	-1,12	2,97E-24	-1,00	3,09E-19
ENSG00000055163	<i>CYFIP2</i>	-0,61	5,68E-12	-0,80	5,16E-19
ENSG00000179403	<i>VWA1</i>	-1,28	1,14E-30	-1,00	6,67E-19
ENSG00000183876	<i>ARSI</i>	-2,03	9,09E-14	-2,45	9,98E-19
ENSG00000175745	<i>NR2F1</i>	-0,79	8,61E-11	-1,09	1,05E-18
ENSG00000120254	<i>MTHFD1L</i>	-0,96	1,86E-26	-0,80	1,21E-18
ENSG00000100364	<i>C22ORF9</i>	-0,49	6,84E-07	-0,85	1,26E-18
ENSG00000104660	<i>LEPROTL1</i>	-0,58	2,26E-07	-0,99	1,27E-18
ENSG00000101444	<i>AHCY</i>	-1,02	2,56E-50	-0,62	1,48E-18
ENSG00000131236	<i>CAP1</i>	-0,21	3,52E-03	-0,58	1,75E-18
ENSG00000147677	<i>EIF3H</i>	-0,25	2,53E-03	-0,68	1,75E-18
ENSG00000038427	<i>VCAN</i>	-1,62	1,03E-17	-1,68	2,44E-18
ENSG00000118503	<i>TNFAIP3</i>	-0,38	7,30E-04	-0,93	2,79E-18
ENSG00000138074	<i>SLC5A6</i>	-0,82	3,89E-24	-0,71	3,41E-18

ENSG00000139793	<i>MBNL2</i>	-0,60	1,61E-10	-0,81	5,31E-18
ENSG00000140450	<i>ARRDC4</i>	-0,88	5,15E-09	-1,33	5,98E-18
ENSG00000092758	<i>COL9A3</i>	-1,39	9,09E-30	-1,07	7,97E-18
ENSG00000215021	<i>PHB2</i>	-0,44	3,33E-10	-0,61	9,11E-18
ENSG00000122406	<i>RPL5</i>	-0,71	2,24E-32	-0,52	1,92E-17
ENSG00000147324	<i>MFHAS1</i>	-0,40	2,48E-04	-0,89	2,00E-17
ENSG00000163235	<i>TGFA</i>	-0,72	7,65E-06	-1,39	2,12E-17
ENSG00000161016	<i>RPL8</i>	-0,73	2,59E-27	-0,58	2,52E-17
ENSG00000174748	<i>RPL15</i>	-0,56	2,39E-16	-0,58	3,02E-17
ENSG00000172164	<i>SNTB1</i>	-0,25	5,32E-04	-0,58	4,08E-17
ENSG00000074964	<i>ARHGEF10L</i>	-0,36	2,42E-05	-0,69	4,10E-17
ENSG00000141568	<i>FO XK2</i>	-0,38	3,70E-06	-0,67	4,39E-17
ENSG00000142676	<i>RPL11</i>	-0,53	3,69E-17	-0,53	4,43E-17
ENSG00000187244	<i>BCAM</i>	-0,30	2,78E-03	-0,79	7,61E-17
ENSG00000133275	<i>CSNK1G2</i>	-0,63	1,24E-08	-0,92	8,73E-17
ENSG00000164251	<i>F2RL1</i>	-2,21	6,51E-87	-0,88	9,35E-17
ENSG00000197081	<i>IGF2R</i>	-0,65	2,27E-28	-0,50	1,32E-16
ENSG00000054179	<i>ENTPD2</i>	-0,93	2,27E-09	-1,31	1,56E-16
ENSG00000034510	<i>TMSB10</i>	-1,09	1,10E-41	-0,68	1,59E-16
ENSG00000171858	<i>RPS21</i>	-0,67	1,04E-22	-0,57	1,71E-16
ENSG00000100316	<i>LOC653881</i>	-0,61	4,52E-24	-0,51	1,80E-16
ENSG00000164171	<i>ITGA2</i>	-1,94	2,57E-111	-0,71	1,89E-16
ENSG00000165238	<i>WNK2</i>	-0,75	8,59E-12	-0,91	1,89E-16
ENSG00000125398	<i>SOX9</i>	-0,72	1,28E-16	-0,72	2,13E-16
ENSG00000130821	<i>SLC6A8</i>	-1,37	3,05E-51	-0,76	2,90E-16
ENSG00000166949	<i>SMAD3</i>	-0,49	1,93E-08	-0,71	3,09E-16
ENSG00000174444	<i>RPL4</i>	-0,85	9,13E-46	-0,50	4,93E-16
ENSG00000160255	<i>ITGB2</i>	-0,69	3,08E-06	-1,20	5,27E-16
ENSG00000137193	<i>PIM1</i>	-1,57	3,02E-61	-0,77	5,87E-16
ENSG00000198888	<i>ND1</i>	-0,48	9,39E-12	-0,57	6,97E-16
ENSG00000114650	<i>SCAP</i>	-0,27	3,56E-03	-0,70	7,81E-16
ENSG00000260604	<i>RP1-140K8.5</i>	-1,73	7,04E-32	-1,18	8,87E-16

ENSG00000164946	<i>FREM1</i>	-1,24	2,49E-34	-0,83	9,41E-16
ENSG00000182272	<i>B4GALNT4</i>	-2,08	3,53E-46	-1,13	1,09E-15
ENSG00000167635	<i>ZNF146</i>	-0,73	1,37E-15	-0,74	1,26E-15
ENSG00000167703	<i>SLC43A2</i>	-1,10	9,83E-22	-0,93	1,28E-15
ENSG00000204628	<i>GNB2L1</i>	-0,38	2,22E-07	-0,57	1,57E-15
ENSG00000171490	<i>RSL1D1</i>	-0,22	6,51E-04	-0,50	1,74E-15
ENSG00000122490	<i>PQLC1</i>	-0,35	9,13E-04	-0,80	1,91E-15
ENSG00000110700	<i>RPS13</i>	-0,60	1,06E-22	-0,50	1,98E-15
ENSG00000210082	<i>MT-RNR2</i>	-1,01	7,43E-84	-0,43	2,16E-15
ENSG00000183741	<i>CBX6</i>	-0,59	4,82E-04	-1,32	2,92E-15
ENSG00000144713	<i>RPL32</i>	-0,73	3,05E-28	-0,53	3,28E-15
ENSG00000157557	<i>ETS2</i>	-1,36	1,03E-51	-0,71	3,43E-15
ENSG00000078898	<i>BPIL1</i>	-1,33	2,99E-70	-0,61	3,72E-15
ENSG00000058056	<i>USP13</i>	-1,13	1,58E-32	-0,76	4,27E-15
ENSG00000148303	<i>RPL7A</i>	-0,44	5,67E-15	-0,44	6,23E-15
ENSG00000177508	<i>IRX3</i>	-1,95	2,36E-38	-1,14	7,30E-15
ENSG00000105379	<i>ETFB</i>	-1,01	7,42E-24	-0,79	1,30E-14
ENSG00000141503	<i>MINK1</i>	-0,39	5,98E-05	-0,73	1,55E-14
ENSG00000077782	<i>FGFR1</i>	-0,68	3,97E-10	-0,83	1,63E-14
ENSG00000010319	<i>SEMA3G</i>	-1,07	2,08E-20	-0,90	1,67E-14
ENSG00000158985	<i>CDC42SE2</i>	-0,48	1,69E-06	-0,77	1,68E-14
ENSG00000197594	<i>ENPP1</i>	-1,53	9,49E-98	-0,57	1,98E-14
ENSG00000109819	<i>PPARGC1A</i>	-0,82	3,85E-16	-0,78	2,09E-14
ENSG00000070669	<i>ASNS</i>	-1,73	1,15E-67	-0,77	2,42E-14
ENSG00000133195	<i>SLC39A11</i>	-0,76	9,20E-07	-1,18	2,65E-14
ENSG00000071082	<i>RPL31</i>	-0,71	3,70E-27	-0,51	3,34E-14
ENSG00000135677	<i>GNS</i>	-0,50	1,89E-08	-0,66	4,83E-14
ENSG00000187109	<i>NAP1L1</i>	-1,17	6,70E-65	-0,53	4,83E-14
ENSG00000140443	<i>IGF1R</i>	-0,63	2,50E-18	-0,55	5,15E-14
ENSG00000166441	<i>RPL27A</i>	-0,74	9,45E-24	-0,57	5,52E-14
ENSG00000162889	<i>MAPKAPK2</i>	-0,59	7,39E-09	-0,77	1,03E-13
ENSG00000172943	<i>PHF8</i>	-0,27	7,34E-03	-0,70	1,16E-13

ENSG00000166986	MARS	-0,87	1,11E-33	-0,55	1,33E-13
ENSG00000233016	SNHG7	-0,54	3,86E-05	-0,96	1,36E-13
ENSG00000161091	C19ORF28	-0,56	3,93E-05	-1,00	1,36E-13
ENSG00000105372	RPS19	-0,48	1,14E-10	-0,55	1,40E-13
ENSG00000079432	CIC	-0,81	8,45E-16	-0,76	1,56E-13
ENSG00000133112	LOC285741	-0,69	1,73E-25	-0,50	1,63E-13
ENSG00000079308	TNS1	-2,25	7,96E-26	-1,61	1,81E-13
ENSG00000108107	RPL28	-0,39	4,53E-06	-0,61	1,98E-13
ENSG00000144711	IQSEC1	-0,29	9,10E-04	-0,61	2,26E-13
ENSG00000108298	RPL19	-0,47	1,76E-14	-0,46	2,29E-13
ENSG00000162407	PPAP2B	-0,48	2,76E-09	-0,59	2,76E-13
ENSG00000162009	SSTR5	-1,21	8,50E-15	-1,15	3,40E-13
ENSG00000110721	CHKA	-0,24	7,37E-03	-0,61	3,52E-13
ENSG00000140988	RPS2	-0,47	5,62E-13	-0,47	3,58E-13
ENSG00000035928	RFC1	-0,38	3,83E-07	-0,53	3,93E-13
ENSG00000142937	RPS8	-0,63	1,68E-17	-0,55	4,66E-13
ENSG00000168994	C6ORF145	-0,85	2,14E-15	-0,78	7,39E-13
ENSG00000154127	UBASH3B	-1,06	7,85E-26	-0,73	9,99E-13
ENSG00000116584	ARHGEF2	-0,83	1,12E-08	-1,05	1,12E-12
ENSG00000226015	CCT8P1	-1,39	5,43E-20	-1,09	1,38E-12
ENSG00000157827	FMNL2	-1,36	5,00E-77	-0,53	1,74E-12
ENSG00000152818	UTRN	-1,33	1,68E-77	-0,52	1,87E-12
ENSG00000142599	RERE	-0,67	2,37E-16	-0,58	2,11E-12
ENSG00000105429	MEGF8	-0,78	3,35E-16	-0,69	2,16E-12
ENSG00000204444	APOM	-0,86	3,97E-33	-0,52	2,24E-12
ENSG00000138095	LRPPRC	-0,64	4,53E-26	-0,44	2,24E-12
ENSG00000103429	BFAR	-0,26	9,83E-04	-0,52	2,58E-12
ENSG00000113328	CCNG1	-0,52	4,80E-11	-0,55	2,91E-12
ENSG00000138604	GLCE	-0,93	5,96E-11	-1,01	3,52E-12
ENSG00000205730	ITPRIPL2	-0,78	4,07E-13	-0,76	3,79E-12
ENSG00000100345	MYH9	-0,49	3,55E-12	-0,49	3,89E-12
ENSG00000146729	GBAS	-0,53	1,84E-05	-0,84	4,59E-12

ENSG00000089157	<i>RPLP0</i>	-0,52	3,69E-17	-0,43	4,82E-12
ENSG00000101577	<i>LPIN2</i>	-0,76	6,49E-24	-0,53	5,07E-12
ENSG00000099204	<i>ABLIM1</i>	-0,43	9,80E-11	-0,47	5,45E-12
ENSG00000054965	<i>FAM168A</i>	-0,45	1,62E-06	-0,64	6,03E-12
ENSG00000197958	<i>RPL12</i>	-0,51	1,08E-14	-0,46	6,10E-12
ENSG00000169908	<i>TM4SF1</i>	-1,73	3,75E-101	-0,58	7,12E-12
ENSG00000078401	<i>EDN1</i>	-1,89	7,24E-20	-1,42	7,13E-12
ENSG00000105373	<i>GLTSCR2</i>	-0,84	2,99E-13	-0,80	7,90E-12
ENSG00000185615	<i>PDIA2</i>	-1,76	7,13E-19	-1,36	9,02E-12
ENSG00000087266	<i>SH3BP2</i>	-0,77	1,57E-09	-0,88	1,09E-11
ENSG00000169855	<i>LOC642132</i>	-1,06	5,51E-49	-0,51	1,18E-11
ENSG00000197756	<i>RPL37A</i>	-0,60	1,77E-22	-0,43	1,24E-11
ENSG00000198755	<i>RPL10A</i>	-0,67	9,80E-28	-0,43	1,50E-11
ENSG00000137818	<i>RPLP1</i>	-0,64	5,76E-17	-0,53	1,50E-11
ENSG00000100528	<i>CNIH</i>	-0,34	5,02E-04	-0,63	1,53E-11
ENSG00000103187	<i>COTL1</i>	-1,89	1,18E-48	-0,84	1,81E-11
ENSG00000155229	<i>MMS19</i>	-0,38	4,57E-05	-0,61	1,94E-11
ENSG00000137309	<i>HMGA1</i>	-1,06	3,54E-38	-0,57	2,50E-11
ENSG00000102081	<i>FMR1</i>	-0,39	1,29E-05	-0,58	2,67E-11
ENSG00000168758	<i>SEMA4C</i>	-1,24	3,10E-31	-0,72	2,76E-11
ENSG00000168264	<i>IRF2BP2</i>	-0,79	2,24E-21	-0,57	2,76E-11
ENSG00000156508	<i>EEF1A1</i>	-0,64	2,75E-17	-0,52	2,76E-11
ENSG00000197321	<i>SVIL</i>	-0,63	1,23E-07	-0,80	2,78E-11
ENSG00000128829	<i>EIF2AK4</i>	-0,81	1,17E-27	-0,51	2,84E-11
ENSG00000198858	<i>C19ORF22</i>	-0,53	5,36E-07	-0,70	3,50E-11
ENSG00000137166	<i>FOXP4</i>	-0,41	3,68E-05	-0,64	3,71E-11
ENSG00000143537	<i>ADAM15</i>	-0,57	2,93E-05	-0,89	3,74E-11
ENSG00000168003	<i>SLC3A2</i>	-0,23	2,74E-03	-0,47	4,12E-11
ENSG00000163513	<i>TGFBP2</i>	-0,56	4,41E-17	-0,45	4,20E-11
ENSG00000125691	<i>RPL23</i>	-0,83	5,59E-37	-0,45	5,27E-11
ENSG00000168488	<i>ATXN2L</i>	-0,34	5,66E-06	-0,48	6,36E-11
ENSG00000198886	<i>ND4</i>	-0,43	3,91E-16	-0,35	6,82E-11

ENSG00000146433	<i>TMEM181</i>	-0,91	1,10E-34	-0,50	7,15E-11
ENSG00000168056	<i>LTBP3</i>	-0,53	1,35E-06	-0,71	7,15E-11
ENSG00000128342	<i>LIF</i>	-0,71	2,08E-04	-1,24	7,23E-11
ENSG00000144645	<i>OSBPL10</i>	-2,13	2,00E-46	-0,94	7,62E-11
ENSG00000260032	<i>LINC00657</i>	-0,33	1,10E-06	-0,43	8,35E-11
ENSG00000101384	<i>JAG1</i>	-0,55	1,68E-13	-0,49	9,12E-11
ENSG00000116962	<i>NID1</i>	-0,83	1,63E-36	-0,44	1,01E-10
ENSG00000125149	<i>C16ORF70</i>	-0,92	2,36E-18	-0,69	1,01E-10
ENSG00000140044	<i>JDP2</i>	-0,81	2,21E-04	-1,42	1,06E-10
ENSG00000145425	<i>LOC100130107</i>	-0,71	1,94E-18	-0,53	1,08E-10
ENSG00000181896	<i>ZNF101</i>	-0,80	3,33E-08	-0,94	1,23E-10
ENSG00000103460	<i>TOX3</i>	-1,23	2,59E-31	-0,69	1,28E-10
ENSG00000105639	<i>JAK3</i>	-1,61	9,89E-21	-1,11	1,51E-10
ENSG00000147408	<i>CSGALNACT1</i>	-2,05	2,00E-20	-1,41	1,53E-10
ENSG00000182606	<i>TRAK1</i>	-0,75	3,34E-20	-0,54	1,77E-10
ENSG00000177426	<i>TGIF1</i>	-0,91	1,55E-14	-0,77	1,78E-10
ENSG00000189221	<i>MAOA</i>	-0,38	2,05E-04	-0,64	1,89E-10
ENSG00000198804	<i>COX1</i>	-0,48	2,75E-19	-0,35	1,90E-10
ENSG00000185624	<i>P4HB</i>	-0,52	2,77E-17	-0,40	2,01E-10
ENSG00000055483	<i>USP36</i>	-0,32	5,01E-04	-0,57	2,02E-10
ENSG00000105254	<i>TBCB</i>	-0,76	8,29E-11	-0,75	2,25E-10
ENSG00000008710	<i>PKD1</i>	-0,82	2,41E-14	-0,70	2,38E-10
ENSG00000196914	<i>ARHGEF12</i>	-0,33	9,61E-06	-0,46	2,46E-10
ENSG00000141905	<i>NFIC</i>	-0,87	9,54E-10	-0,92	2,47E-10
ENSG00000142089	<i>IFITM3</i>	-1,02	1,07E-18	-0,74	2,54E-10
ENSG00000101337	<i>TM9SF4</i>	-0,40	1,73E-08	-0,45	2,87E-10
ENSG00000132970	<i>WASF3</i>	-0,87	8,19E-12	-0,81	3,00E-10
ENSG00000184640	<i>SEPT9</i>	-0,20	4,52E-03	-0,42	3,00E-10
ENSG00000120129	<i>DUSP1</i>	-0,92	7,19E-10	-0,96	3,29E-10
ENSG00000064300	<i>NGFR</i>	-2,79	1,58E-21	-1,84	3,52E-10
ENSG00000091136	<i>LAMB1</i>	-1,00	5,32E-51	-0,43	3,64E-10
ENSG00000233927	<i>RPS28</i>	-0,46	1,46E-06	-0,59	4,28E-10

ENSG00000007047	<i>MARK4</i>	-0,76	5,81E-08	-0,88	4,47E-10
ENSG00000159335	<i>PTMS</i>	-0,95	6,10E-11	-0,92	4,73E-10
ENSG00000065154	<i>OAT</i>	-0,26	4,71E-03	-0,53	5,10E-10
ENSG00000127948	<i>POR</i>	-0,51	6,36E-14	-0,43	6,01E-10
ENSG00000175727	<i>MLXIP</i>	-0,28	9,27E-03	-0,64	6,01E-10
ENSG00000182319	<i>SGK223</i>	-1,04	1,79E-21	-0,69	6,75E-10
ENSG00000116017	<i>ARID3A</i>	-0,31	2,48E-04	-0,51	7,01E-10
ENSG00000089009	<i>RPL6</i>	-1,16	1,34E-59	-0,46	7,02E-10
ENSG00000198727	<i>CYTB</i>	-0,46	6,53E-12	-0,42	7,10E-10
ENSG00000142192	<i>APP</i>	-1,03	2,56E-46	-0,46	7,17E-10
ENSG00000090339	<i>ICAM1</i>	-1,33	7,20E-41	-0,62	8,93E-10
ENSG00000105325	<i>FZR1</i>	-0,33	3,44E-03	-0,66	8,96E-10
ENSG00000168615	<i>ADAM9</i>	-0,95	3,53E-42	-0,44	9,03E-10
ENSG00000158296	<i>SLC13A3</i>	-1,58	5,67E-38	-0,74	9,35E-10
ENSG00000198959	<i>TGM2</i>	-0,43	7,24E-04	-0,76	9,35E-10
ENSG00000064932	<i>SBNO2</i>	-0,70	2,09E-08	-0,77	1,07E-09
ENSG00000047457	<i>CP</i>	-2,40	1,92E-44	-1,10	1,09E-09
ENSG00000175826	<i>DULLARD</i>	-0,78	1,06E-08	-0,85	1,09E-09
ENSG00000105640	<i>RPL18A</i>	-0,75	8,39E-18	-0,54	1,13E-09
ENSG00000167491	<i>GATAD2A</i>	-0,48	3,13E-06	-0,62	1,17E-09
ENSG00000067082	<i>KLF6</i>	-0,70	3,73E-17	-0,52	1,19E-09
ENSG00000143947	<i>RPS27A</i>	-0,63	3,98E-23	-0,40	1,24E-09
ENSG00000132670	<i>PTPRA</i>	-0,36	2,31E-06	-0,46	1,33E-09
ENSG00000177807	<i>KCNJ10</i>	-2,23	2,27E-13	-1,88	1,35E-09
ENSG00000084652	<i>TXLNA</i>	-0,41	5,35E-07	-0,49	1,38E-09
ENSG00000130066	<i>SAT1</i>	-1,35	1,28E-63	-0,51	1,54E-09
ENSG00000100065	<i>CARD10</i>	-0,76	5,01E-19	-0,53	1,59E-09
ENSG00000112033	<i>PPARD</i>	-0,73	9,41E-10	-0,73	1,97E-09
ENSG00000100422	<i>CERK</i>	-0,46	1,91E-06	-0,58	1,98E-09
ENSG00000233864	<i>TTY15</i>	-0,45	1,88E-03	-0,84	2,41E-09
ENSG00000167526	<i>RPL13</i>	-0,62	1,51E-11	-0,56	2,42E-09
ENSG00000056586	<i>RC3H2</i>	-0,42	6,64E-06	-0,56	2,62E-09

ENSG00000159128	<i>IFNGR2</i>	-0,78	1,19E-10	-0,73	3,14E-09
ENSG00000130255	<i>RPL36</i>	-0,48	5,61E-07	-0,57	3,16E-09
ENSG00000065060	<i>UHRF1BP1</i>	-0,31	9,76E-05	-0,46	3,37E-09
ENSG00000134686	<i>PHC2</i>	-0,78	1,62E-21	-0,50	3,52E-09
ENSG00000198300	<i>PEG3</i>	-0,59	1,31E-16	-0,43	3,73E-09
ENSG00000221978	<i>CCNL2</i>	-0,40	7,68E-06	-0,52	3,85E-09
ENSG00000103811	<i>CTSH</i>	-0,31	4,76E-05	-0,44	3,90E-09
ENSG00000072864	<i>NDE1</i>	-1,29	5,96E-41	-0,58	4,01E-09
ENSG00000005022	<i>SLC25A5</i>	-0,39	2,53E-07	-0,45	4,14E-09
ENSG00000123989	<i>CHPF</i>	-1,32	2,78E-53	-0,52	4,79E-09
ENSG00000185359	<i>HGS</i>	-0,57	1,57E-09	-0,56	4,79E-09
ENSG00000171867	<i>PRNP</i>	-0,30	4,15E-05	-0,42	4,93E-09
ENSG00000163435	<i>ELF3</i>	-1,34	1,05E-10	-1,23	5,14E-09
ENSG00000172057	<i>ORMDL3</i>	-1,45	2,35E-64	-0,52	5,29E-09
ENSG00000104529	<i>EEF1D</i>	-0,43	2,04E-08	-0,45	5,77E-09
ENSG00000031823	<i>RANBP3</i>	-0,69	6,32E-13	-0,57	5,85E-09
ENSG00000140836	<i>ZFH3</i>	-0,52	1,72E-08	-0,54	6,58E-09
ENSG00000124226	<i>RNF114</i>	-0,25	4,15E-03	-0,47	6,67E-09
ENSG00000171877	<i>FRMD5</i>	-1,26	8,84E-07	-1,51	6,96E-09
ENSG00000008282	<i>SYPL1</i>	-0,49	3,47E-07	-0,57	7,20E-09
ENSG00000119669	<i>C14ORF4</i>	-0,77	1,00E-06	-0,91	7,30E-09
ENSG00000213949	<i>ITGA1</i>	-1,04	2,04E-27	-0,57	7,61E-09
ENSG00000229117	<i>RPL41</i>	-0,69	3,83E-25	-0,40	8,08E-09
ENSG00000170537	<i>TMC7</i>	-1,11	2,19E-08	-1,16	8,51E-09
ENSG00000123243	<i>ITIH5</i>	-0,56	1,55E-04	-0,84	8,68E-09
ENSG00000163584	<i>RPL22L1</i>	-1,09	6,32E-14	-0,85	9,01E-09
ENSG00000123561	<i>SERPINA7</i>	-1,17	2,53E-45	-0,50	9,02E-09
ENSG00000108840	<i>HDAC5</i>	-0,48	1,51E-06	-0,57	9,68E-09
ENSG00000176624	<i>MEX3C</i>	-0,33	3,52E-03	-0,62	1,12E-08
ENSG00000105767	<i>CADM4</i>	-0,67	4,49E-05	-0,93	1,14E-08
ENSG00000183337	<i>BCOR</i>	-0,40	2,52E-05	-0,54	1,15E-08
ENSG00000113387	<i>SUB1</i>	-0,26	2,07E-03	-0,46	1,22E-08

ENSG00000088826	<i>SMOX</i>	-0,42	1,62E-03	-0,75	1,24E-08
ENSG00000103005	<i>C16ORF57</i>	-0,27	6,12E-03	-0,53	1,24E-08
ENSG00000129473	<i>BCL2L2</i>	-0,52	4,91E-09	-0,51	1,53E-08
ENSG00000145741	<i>BTF3</i>	-0,26	1,93E-05	-0,35	1,54E-08
ENSG00000162337	<i>LRP5</i>	-0,83	3,22E-39	-0,38	1,57E-08
ENSG00000133812	<i>SBF2</i>	-0,44	7,08E-05	-0,62	1,73E-08
ENSG00000167202	<i>TBC1D2B</i>	-0,46	1,36E-04	-0,67	2,20E-08
ENSG00000164056	<i>SPRY1</i>	-1,12	8,49E-23	-0,65	2,20E-08
ENSG00000130723	<i>BAT2L1</i>	-0,25	9,31E-04	-0,41	2,22E-08
ENSG00000156413	<i>FUT6</i>	-1,15	1,26E-19	-0,73	2,22E-08
ENSG00000188559	<i>RALGAPA2</i>	-1,02	1,21E-32	-0,50	2,22E-08
ENSG00000143384	<i>MCL1</i>	-1,25	3,09E-67	-0,42	2,23E-08
ENSG00000018408	<i>WWTR1</i>	-0,46	1,51E-08	-0,46	2,23E-08
ENSG00000183255	<i>PTTG1IP</i>	-0,72	5,68E-25	-0,41	2,31E-08
ENSG00000101040	<i>ZMYND8</i>	-0,65	1,76E-20	-0,41	2,42E-08
ENSG00000105355	<i>PLIN3</i>	-0,73	2,42E-16	-0,51	2,63E-08
ENSG00000071564	<i>TCF3</i>	-0,40	6,93E-05	-0,56	2,78E-08
ENSG00000181789	<i>COPG</i>	-0,21	8,90E-03	-0,42	2,78E-08
ENSG00000136295	<i>TTYH3</i>	-0,85	1,94E-31	-0,42	2,82E-08
ENSG00000083857	<i>FAT1</i>	-0,49	1,45E-10	-0,44	2,91E-08
ENSG00000100889	<i>PCK2</i>	-0,58	3,11E-16	-0,40	3,09E-08
ENSG00000188707	<i>C7ORF29</i>	-0,39	7,74E-04	-0,62	3,09E-08
ENSG00000138326	<i>RPS24</i>	-0,67	4,74E-19	-0,43	3,10E-08
ENSG00000008988	<i>RPS20</i>	-0,51	1,70E-15	-0,37	3,25E-08
ENSG00000170035	<i>UBE2E3</i>	-0,28	5,35E-03	-0,54	3,40E-08
ENSG00000145907	<i>G3BP1</i>	-0,30	1,91E-05	-0,39	3,66E-08
ENSG00000100353	<i>EIF3D</i>	-0,54	1,37E-11	-0,45	4,39E-08
ENSG00000107581	<i>EIF3A</i>	-0,33	1,11E-07	-0,34	4,91E-08
ENSG00000171863	<i>RPS7</i>	-0,70	3,88E-20	-0,43	5,14E-08
ENSG00000141522	<i>ARHGDI1A</i>	-0,58	1,37E-06	-0,66	5,61E-08
ENSG00000178297	<i>TMPRSS9</i>	-0,79	1,48E-04	-1,12	6,45E-08
ENSG00000135486	<i>HNRNPA1</i>	-0,24	1,03E-03	-0,37	6,67E-08

ENSG00000090975	PITPNM2	-0,44	2,88E-03	-0,77	6,83E-08
ENSG00000137154	RPS6	-0,90	5,92E-37	-0,40	6,87E-08
ENSG00000107331	ABCA2	-0,61	2,24E-07	-0,65	6,98E-08
ENSG00000122376	FAM35B	-0,39	1,33E-04	-0,54	7,09E-08
ENSG00000142627	EPHA2	-1,09	1,42E-34	-0,49	7,76E-08
ENSG00000112379	KIAA1244	-1,81	3,03E-24	-0,95	8,05E-08
ENSG00000139842	CUL4A	-0,44	3,39E-08	-0,43	8,79E-08
ENSG00000162909	CAPN2	-0,63	9,18E-06	-0,76	9,04E-08
ENSG00000162267	ITIH3	-0,96	7,65E-11	-0,81	9,31E-08
ENSG00000116539	ASH1L	-0,55	3,99E-07	-0,59	9,45E-08
ENSG00000174032	SLC25A30	-0,51	1,27E-06	-0,57	9,64E-08
ENSG00000196531	NACA	-0,37	9,69E-10	-0,33	9,67E-08
ENSG00000090621	PABPC4	-0,62	4,31E-13	-0,47	9,83E-08
ENSG00000142453	CARM1	-0,95	6,35E-20	-0,57	1,00E-07
ENSG00000166016	ABTB2	-0,65	7,35E-09	-0,61	1,01E-07
ENSG00000164574	GALNT10	-0,43	1,82E-04	-0,61	1,05E-07
ENSG00000182899	RPL35A	-0,62	1,78E-18	-0,39	1,07E-07
ENSG00000121552	CSTA	-1,87	8,55E-10	-1,65	1,10E-07
ENSG00000077232	DNAJC10	-0,34	1,07E-06	-0,37	1,21E-07
ENSG00000164684	ZNF704	-0,43	5,95E-04	-0,64	1,27E-07
ENSG00000172809	RPL38	-0,67	3,17E-14	-0,48	1,30E-07
ENSG00000101255	TRIB3	-0,38	2,96E-07	-0,40	1,35E-07
ENSG00000197457	STMN3	-1,08	1,43E-25	-0,56	1,39E-07
ENSG00000160213	CSTB	-0,78	8,95E-11	-0,65	1,46E-07
ENSG00000131469	RPL27	-0,64	2,41E-18	-0,40	1,56E-07
ENSG00000060237	LOC100132369	-0,38	1,39E-07	-0,39	1,57E-07
ENSG00000144136	SLC20A1	-0,59	1,01E-15	-0,40	1,69E-07
ENSG00000169813	HNRNPF	-0,21	2,99E-03	-0,36	1,75E-07
ENSG00000171206	TRIM8	-0,50	1,34E-04	-0,68	1,80E-07
ENSG00000103335	FAM38A	-0,46	8,66E-07	-0,49	1,82E-07
ENSG00000118579	MED28	-0,44	1,83E-06	-0,48	1,83E-07
ENSG00000160712	IL6R	-0,82	8,45E-22	-0,46	1,86E-07

ENSG00000135966	<i>TGFBRAP1</i>	-0,57	2,11E-09	-0,51	1,94E-07
ENSG00000152894	<i>PTPRK</i>	-0,25	1,61E-03	-0,41	2,03E-07
ENSG00000116260	<i>QSOX1</i>	-2,27	9,10E-48	-0,79	2,10E-07
ENSG00000004399	<i>PLXND1</i>	-0,88	6,32E-26	-0,45	2,15E-07
ENSG00000141551	<i>CSNK1D</i>	-0,29	3,97E-04	-0,42	2,21E-07
ENSG00000176438	<i>C14ORF49</i>	-0,70	2,07E-05	-0,86	2,25E-07
ENSG00000205595	<i>AREG</i>	-1,84	7,58E-09	-1,68	2,30E-07
ENSG00000136938	<i>ANP32B</i>	-0,26	4,23E-04	-0,37	2,34E-07
ENSG00000141582	<i>CBX4</i>	-0,46	2,71E-03	-0,77	2,37E-07
ENSG00000118985	<i>ELL2</i>	-0,86	7,04E-30	-0,41	2,74E-07
ENSG00000113407	<i>TARS</i>	-0,71	7,72E-20	-0,41	2,95E-07
ENSG00000170017	<i>ALCAM</i>	-0,58	3,85E-10	-0,49	3,10E-07
ENSG00000126368	<i>NR1D1</i>	-0,63	1,63E-03	-1,01	3,19E-07
ENSG00000168028	<i>RPSA</i>	-0,60	1,40E-26	-0,30	3,37E-07
ENSG00000188706	<i>ZDHHC9</i>	-0,37	2,24E-05	-0,45	3,51E-07
ENSG00000177885	<i>GRB2</i>	-0,25	4,15E-03	-0,42	3,61E-07
ENSG00000162878	<i>PKDCC</i>	-1,27	3,19E-34	-0,55	3,81E-07
ENSG00000198734	<i>F5</i>	-0,73	4,29E-21	-0,41	4,18E-07
ENSG00000136010	<i>ALDH1L2</i>	-0,85	3,63E-11	-0,67	4,36E-07
ENSG00000167522	<i>ANKRD11</i>	-0,35	1,48E-05	-0,41	4,68E-07
ENSG00000134243	<i>SORT1</i>	-0,59	2,59E-17	-0,37	4,78E-07
ENSG00000010818	<i>HIVEP2</i>	-1,47	1,11E-24	-0,73	4,94E-07
ENSG00000125741	<i>OPA3</i>	-0,39	1,45E-03	-0,61	4,98E-07
ENSG00000102996	<i>MMP15</i>	-0,58	9,30E-11	-0,46	5,34E-07
ENSG00000107404	<i>DVL1</i>	-0,54	4,39E-08	-0,51	5,34E-07
ENSG00000160789	<i>LMNA</i>	-0,30	1,62E-04	-0,40	5,34E-07
ENSG00000164086	<i>DUSP7</i>	-0,48	6,28E-03	-0,86	5,46E-07
ENSG00000166197	<i>NOLC1</i>	-0,72	2,58E-20	-0,41	5,86E-07
ENSG00000011009	<i>LYPLA2</i>	-0,40	2,03E-04	-0,53	5,91E-07
ENSG00000182600	<i>C2ORF82</i>	-1,15	1,14E-10	-0,91	6,35E-07
ENSG00000147459	<i>DOCK5</i>	-0,40	1,50E-04	-0,52	6,52E-07
ENSG00000132640	<i>BTBD3</i>	-1,01	1,03E-22	-0,53	6,53E-07

ENSG00000088836	<i>SLC4A11</i>	-0,92	4,53E-13	-0,65	7,14E-07
ENSG00000002549	<i>LAP3</i>	-1,39	1,02E-48	-0,49	7,41E-07
ENSG00000163251	<i>FZD5</i>	-0,36	1,73E-06	-0,37	7,49E-07
ENSG00000088992	<i>TESC</i>	-1,15	1,43E-15	-0,73	7,66E-07
ENSG00000142207	<i>URB1</i>	-0,40	2,98E-05	-0,48	7,87E-07
ENSG00000142910	<i>TINAGL1</i>	-0,57	1,49E-03	-0,87	7,98E-07
ENSG00000177728	<i>KIAA0195</i>	-0,36	6,24E-04	-0,50	8,48E-07
ENSG00000143013	<i>LMO4</i>	-1,09	2,64E-12	-0,79	8,50E-07
ENSG00000198369	<i>SPRED2</i>	-0,49	4,42E-10	-0,39	8,77E-07
ENSG00000108219	<i>TSPAN14</i>	-0,89	9,24E-31	-0,40	8,92E-07
ENSG00000166575	<i>TMEM135</i>	-0,63	6,23E-17	-0,39	9,10E-07
ENSG00000115457	<i>IGFBP2</i>	-2,06	4,03E-14	-1,35	9,33E-07
ENSG00000099942	<i>CRKL</i>	-0,45	1,20E-07	-0,42	9,36E-07
ENSG00000131471	<i>AOC3</i>	-0,58	2,83E-07	-0,56	1,01E-06
ENSG00000234741	<i>GAS5</i>	-0,56	1,69E-07	-0,53	1,01E-06
ENSG00000078804	<i>TP53INP2</i>	-0,42	1,77E-06	-0,43	1,04E-06
ENSG00000147604	<i>RPL7</i>	-0,70	4,75E-18	-0,41	1,06E-06
ENSG00000197724	<i>PHF2</i>	-0,51	5,12E-05	-0,62	1,12E-06
ENSG00000178035	<i>IMPDH2</i>	-0,53	3,71E-14	-0,35	1,13E-06
ENSG00000188647	<i>PTAR1</i>	-0,32	1,76E-03	-0,49	1,13E-06
ENSG00000129250	<i>KIF1C</i>	-0,34	4,95E-05	-0,41	1,19E-06
ENSG00000119383	<i>PPP2R4</i>	-0,35	2,88E-05	-0,41	1,20E-06
ENSG00000068120	<i>COASY</i>	-0,32	1,37E-05	-0,36	1,24E-06
ENSG00000137331	<i>IER3</i>	-2,46	9,01E-119	-0,51	1,25E-06
ENSG00000112337	<i>SLC17A2</i>	-0,60	9,20E-06	-0,66	1,30E-06
ENSG00000157224	<i>CLDN12</i>	-0,74	1,87E-15	-0,47	1,41E-06
ENSG00000128849	<i>CGNL1</i>	-0,53	2,18E-07	-0,50	1,43E-06
ENSG00000055917	<i>PUM2</i>	-0,26	3,55E-04	-0,35	1,49E-06
ENSG00000130175	<i>PRKCSH</i>	-0,35	1,07E-04	-0,44	1,50E-06
ENSG00000075426	<i>FOSL2</i>	-0,93	9,88E-18	-0,54	1,57E-06
ENSG00000107957	<i>SH3PXD2A</i>	-0,52	8,79E-10	-0,42	1,68E-06
ENSG00000139146	<i>FAM60A</i>	-1,28	7,50E-41	-0,48	1,87E-06

ENSG00000101194	<i>SLC17A9</i>	-0,44	7,30E-10	-0,35	2,06E-06
ENSG00000105281	<i>SLC1A5</i>	-1,01	1,03E-40	-0,38	2,06E-06
ENSG00000099860	<i>GADD45B</i>	-1,29	1,26E-08	-1,10	2,12E-06
ENSG00000138080	<i>EMILIN1</i>	-0,99	3,93E-20	-0,53	2,15E-06
ENSG00000149187	<i>CELF1</i>	-0,48	4,84E-10	-0,37	2,18E-06
ENSG00000102763	<i>KIAA0564</i>	-0,65	2,84E-09	-0,53	2,18E-06
ENSG00000139318	<i>DUSP6</i>	-1,52	1,83E-53	-0,49	2,37E-06
ENSG00000113721	<i>PDGFRB</i>	-1,43	8,54E-23	-0,70	2,49E-06
ENSG00000182534	<i>MXRA7</i>	-1,12	2,72E-32	-0,47	2,60E-06
ENSG00000196950	<i>SLC39A10</i>	-1,17	2,59E-18	-0,66	2,67E-06
ENSG00000138166	<i>DUSP5</i>	-2,01	2,05E-14	-1,25	2,76E-06
ENSG00000198918	<i>RPL39</i>	-0,71	6,27E-12	-0,50	3,20E-06
ENSG00000111321	<i>LTBR</i>	-0,35	2,48E-03	-0,53	3,38E-06
ENSG00000129667	<i>RHBDF2</i>	-1,31	1,37E-12	-0,88	3,45E-06
ENSG00000153879	<i>CEBPG</i>	-0,53	1,11E-09	-0,42	3,54E-06
ENSG00000120942	<i>UBIAD1</i>	-0,33	4,50E-03	-0,52	3,80E-06
ENSG00000119559	<i>C19ORF25</i>	-0,60	1,21E-06	-0,58	3,81E-06
ENSG00000092964	<i>DPYSL2</i>	-0,82	3,05E-19	-0,44	3,91E-06
ENSG00000130762	<i>ARHGEF16</i>	-0,52	1,91E-04	-0,64	4,14E-06
ENSG00000115694	<i>STK25</i>	-0,72	4,49E-20	-0,38	4,23E-06
ENSG00000197136	<i>PCNXL3</i>	-0,27	8,78E-03	-0,45	4,26E-06
ENSG00000134352	<i>IL6ST</i>	-0,24	1,09E-03	-0,33	4,68E-06
ENSG00000176490	<i>DIRAS1</i>	-1,58	4,19E-11	-1,12	4,70E-06
ENSG00000149231	<i>CCDC82</i>	-0,29	9,26E-03	-0,49	4,81E-06
ENSG00000169826	<i>CSGALNACT2</i>	-0,84	4,21E-09	-0,68	5,13E-06
ENSG00000134970	<i>TICAM2</i>	-0,56	2,63E-11	-0,40	5,16E-06
ENSG00000179833	<i>SERTAD2</i>	-0,40	8,19E-06	-0,42	5,17E-06
ENSG00000164932	<i>CTHRC1</i>	-2,19	5,90E-27	-0,92	5,33E-06
ENSG00000132382	<i>MYBBP1A</i>	-0,38	2,66E-04	-0,47	5,41E-06
ENSG00000150093	<i>ITGB1</i>	-0,74	3,98E-30	-0,32	5,49E-06
ENSG00000091513	<i>TF</i>	-0,43	3,74E-07	-0,39	5,55E-06
ENSG00000183145	<i>DSCR6</i>	-2,45	2,91E-18	-1,29	5,63E-06

ENSG00000140859	<i>KIFC3</i>	-0,27	8,55E-03	-0,45	5,83E-06
ENSG00000081377	<i>CDC14B</i>	-0,28	8,63E-03	-0,46	5,84E-06
ENSG00000159842	<i>ABR</i>	-0,65	3,00E-07	-0,59	6,01E-06
ENSG00000206053	<i>HN1L</i>	-0,28	1,48E-03	-0,39	6,16E-06
ENSG00000155111	<i>CDK19</i>	-0,38	7,40E-04	-0,50	6,87E-06
ENSG00000259974	<i>LNC00261</i>	-0,67	5,21E-20	-0,35	7,02E-06
ENSG00000141505	<i>ASGR1</i>	-0,51	4,33E-16	-0,30	7,08E-06
ENSG00000185112	<i>FAM43A</i>	-1,46	5,77E-14	-0,89	7,94E-06
ENSG00000179820	<i>MYADM</i>	-0,63	7,21E-10	-0,47	8,15E-06
ENSG00000186184	<i>POLR1D</i>	-0,60	3,71E-12	-0,40	8,41E-06
ENSG00000074211	<i>PPP2R2C</i>	-1,91	6,21E-14	-1,15	8,44E-06
ENSG00000106366	<i>SERPINE1</i>	-2,38	2,49E-28	-1,03	8,79E-06
ENSG00000135069	<i>C8ORF62</i>	-0,32	7,34E-05	-0,36	9,27E-06
ENSG00000237115	<i>LOC100421775</i>	-1,83	6,45E-10	-1,35	9,68E-06
ENSG00000182022	<i>CHST15</i>	-2,77	1,74E-58	-0,81	1,03E-05
ENSG00000177954	<i>RPS27</i>	-0,57	1,88E-11	-0,39	1,08E-05
ENSG00000104885	<i>DOT1L</i>	-0,73	1,86E-16	-0,41	1,09E-05
ENSG00000175906	<i>ARL4D</i>	-0,81	1,06E-08	-0,65	1,10E-05
ENSG00000174804	<i>FZD4</i>	-0,25	4,07E-04	-0,31	1,11E-05
ENSG00000165802	<i>NELF</i>	-0,96	1,21E-34	-0,37	1,11E-05
ENSG00000111676	<i>ATN1</i>	-0,45	3,22E-05	-0,48	1,19E-05
ENSG00000184557	<i>SOCS3</i>	-1,81	1,13E-08	-1,43	1,19E-05
ENSG00000107833	<i>NPM3</i>	-0,42	8,36E-04	-0,55	1,23E-05
ENSG00000076928	<i>ARHGEF1</i>	-0,65	3,55E-10	-0,47	1,26E-05
ENSG00000124143	<i>ARHGAP40</i>	-1,71	3,94E-08	-1,40	1,27E-05
ENSG00000079819	<i>EPB41L2</i>	-1,10	4,38E-53	-0,33	1,28E-05
ENSG00000025772	<i>TOMM34</i>	-0,65	1,80E-10	-0,47	1,28E-05
ENSG00000060982	<i>BCAT1</i>	-1,07	6,26E-31	-0,43	1,31E-05
ENSG00000172270	<i>BSG</i>	-0,59	2,33E-17	-0,32	1,34E-05
ENSG00000139722	<i>VPS37B</i>	-0,65	1,04E-03	-0,87	1,35E-05
ENSG00000198796	<i>ALPK2</i>	-1,27	3,78E-05	-1,36	1,37E-05
ENSG00000114115	<i>RBP1</i>	-1,78	1,45E-13	-1,07	1,37E-05

ENSG00000072110	<i>ACTN1</i>	-0,78	1,39E-26	-0,34	1,39E-05
ENSG00000101162	<i>TUBB1</i>	-2,29	1,98E-42	-0,71	1,40E-05
ENSG00000133612	<i>AGAP3</i>	-0,39	3,61E-04	-0,47	1,62E-05
ENSG00000138623	<i>SEMA7A</i>	-0,51	3,47E-04	-0,62	1,63E-05
ENSG00000165655	<i>ZNF503</i>	-0,73	3,24E-05	-0,77	1,64E-05
ENSG00000213923	<i>CSNK1E</i>	-0,58	1,78E-09	-0,43	1,70E-05
ENSG00000213719	<i>CLIC1</i>	-1,13	5,92E-74	-0,29	1,77E-05
ENSG00000101745	<i>ANKRD12</i>	-0,40	1,04E-03	-0,51	1,83E-05
ENSG00000118520	<i>ARG1</i>	-1,90	1,70E-27	-0,77	1,83E-05
ENSG00000112242	<i>E2F3</i>	-0,64	1,53E-06	-0,59	1,86E-05
ENSG00000114503	<i>NCBP2</i>	-0,82	2,35E-20	-0,40	1,91E-05
ENSG00000214078	<i>CPNE1</i>	-0,26	5,44E-04	-0,32	2,09E-05
ENSG00000197498	<i>RPF2</i>	-0,50	7,63E-04	-0,63	2,12E-05
ENSG00000102760	<i>C13ORF15</i>	-1,74	5,40E-08	-1,41	2,23E-05
ENSG00000033100	<i>CHPF2</i>	-0,54	4,12E-07	-0,47	2,23E-05
ENSG00000184232	<i>OAF</i>	-0,32	2,83E-03	-0,45	2,30E-05
ENSG00000073060	<i>SCARB1</i>	-0,50	3,54E-12	-0,32	2,47E-05
ENSG00000087074	<i>PPP1R15A</i>	-0,90	2,08E-08	-0,70	2,80E-05
ENSG00000005893	<i>LAMP2</i>	-0,29	1,87E-04	-0,33	2,88E-05
ENSG00000059804	<i>SLC2A3</i>	-1,06	2,96E-41	-0,35	3,27E-05
ENSG00000197063	<i>MAFG</i>	-0,49	9,39E-06	-0,47	3,38E-05
ENSG00000110400	<i>PVRL1</i>	-0,48	2,94E-03	-0,67	3,48E-05
ENSG00000251322	<i>SHANK3</i>	-0,63	1,14E-05	-0,61	3,48E-05
ENSG00000148468	<i>FAM171A1</i>	-0,98	3,27E-26	-0,41	3,50E-05
ENSG00000108244	<i>KRT23</i>	-1,24	4,69E-15	-0,68	3,59E-05
ENSG00000010404	<i>IDS</i>	-1,00	5,06E-11	-0,65	3,61E-05
ENSG00000136720	<i>HS6ST1</i>	-0,37	2,38E-05	-0,37	3,64E-05
ENSG00000162998	<i>FRZB</i>	-1,85	5,41E-09	-1,37	3,79E-05
ENSG00000136048	<i>DRAM1</i>	-0,32	6,30E-03	-0,47	3,81E-05
ENSG00000170027	<i>YWHAG</i>	-0,44	2,69E-10	-0,30	4,00E-05
ENSG00000119231	<i>SENP5</i>	-0,45	1,52E-05	-0,44	4,06E-05
ENSG00000167173	<i>C15ORF39</i>	-0,46	2,71E-04	-0,52	4,41E-05

ENSG00000175224	<i>KIAA0652</i>	-0,49	2,13E-09	-0,35	4,53E-05
ENSG00000105699	<i>LSR</i>	-0,57	1,38E-07	-0,46	4,56E-05
ENSG00000167680	<i>SEMA6B</i>	-0,29	9,63E-03	-0,45	4,79E-05
ENSG00000140107	<i>C14ORF68</i>	-1,30	8,55E-10	-0,89	4,85E-05
ENSG00000135912	<i>TTLL4</i>	-0,43	4,22E-07	-0,36	4,86E-05
ENSG00000100060	<i>MFNG</i>	-1,77	2,20E-12	-1,05	5,03E-05
ENSG00000163597	<i>SNHG16</i>	-0,25	5,01E-03	-0,35	5,03E-05
ENSG00000125944	<i>HNRNPR</i>	-0,27	1,83E-04	-0,29	5,12E-05
ENSG00000171425	<i>ZNF581</i>	-0,66	6,82E-05	-0,68	5,20E-05
ENSG00000104419	<i>NDRG1</i>	-1,30	2,98E-12	-0,80	5,33E-05
ENSG00000155980	<i>KIF5A</i>	-1,40	5,30E-16	-0,72	5,86E-05
ENSG00000249550	<i>LINC01234</i>	-1,27	3,53E-08	-0,96	6,10E-05
ENSG00000167614	<i>TTYH1</i>	-1,30	2,82E-05	-1,27	6,17E-05
ENSG00000073067	<i>CYP2W1</i>	-1,22	3,97E-31	-0,44	6,49E-05
ENSG00000148175	<i>STOM</i>	-0,98	3,71E-29	-0,37	6,69E-05
ENSG00000221983	<i>UBA52</i>	-0,37	3,92E-06	-0,33	6,94E-05
ENSG00000105329	<i>TGFB1</i>	-1,49	8,45E-18	-0,71	7,33E-05
ENSG00000247844	<i>CCAT1</i>	-1,21	6,55E-23	-0,51	7,41E-05
ENSG00000149212	<i>SESN3</i>	-0,58	2,08E-03	-0,75	7,63E-05
ENSG00000134294	<i>SLC38A2</i>	-1,51	1,23E-75	-0,36	7,77E-05
ENSG00000134287	<i>ARF3</i>	-0,30	1,36E-03	-0,36	7,85E-05
ENSG00000178209	<i>LOC652460</i>	-0,81	4,16E-17	-0,41	7,91E-05
ENSG00000162927	<i>PUS10</i>	-0,37	4,99E-04	-0,42	7,97E-05
ENSG00000132510	<i>KDM6B</i>	-0,68	8,63E-07	-0,56	8,25E-05
ENSG00000110514	<i>MADD</i>	-0,51	3,28E-07	-0,41	8,40E-05
ENSG00000160336	<i>ZNF761</i>	-0,47	3,45E-03	-0,62	8,80E-05
ENSG00000189343	<i>RPS2P46</i>	-0,41	1,45E-05	-0,38	8,95E-05
ENSG00000073792	<i>IGF2BP2</i>	-0,36	2,99E-06	-0,31	9,17E-05
ENSG00000160271	<i>RALGDS</i>	-0,58	1,80E-04	-0,61	9,38E-05
ENSG00000112186	<i>CAP2</i>	-1,00	2,36E-14	-0,54	9,47E-05
ENSG00000159164	<i>SV2A</i>	-1,62	3,33E-12	-0,93	9,54E-05
ENSG00000082269	<i>FAM135A</i>	-1,06	1,93E-25	-0,42	9,56E-05

ENSG00000107984	<i>DKK1</i>	-0,79	3,82E-11	-0,49	1,02E-04
ENSG00000119125	<i>GDA</i>	-2,20	1,93E-33	-0,69	1,14E-04
ENSG00000118680	<i>MYL12B</i>	-0,46	8,64E-11	-0,29	1,16E-04
ENSG00000165030	<i>NFIL3</i>	-0,89	5,68E-18	-0,42	1,21E-04
ENSG00000115009	<i>CCL20</i>	-2,44	5,31E-51	-0,68	1,23E-04
ENSG00000167792	<i>NDUFV1</i>	-0,29	2,59E-03	-0,37	1,24E-04
ENSG00000113916	<i>BCL6</i>	-0,38	8,45E-05	-0,38	1,28E-04
ENSG00000153815	<i>CMIP</i>	-0,31	5,40E-04	-0,34	1,34E-04
ENSG00000134909	<i>ARHGAP32</i>	-0,38	6,14E-04	-0,43	1,37E-04
ENSG00000105722	<i>ERF</i>	-0,36	4,37E-03	-0,48	1,37E-04
ENSG00000156858	<i>PRR14</i>	-0,46	3,15E-03	-0,60	1,37E-04
ENSG00000085415	<i>SEH1L</i>	-0,49	4,25E-07	-0,38	1,40E-04
ENSG00000050344	<i>NFE2L3</i>	-0,67	6,95E-06	-0,58	1,44E-04
ENSG00000156096	<i>UGT2B4</i>	-1,43	4,06E-17	-0,67	1,46E-04
ENSG00000198763	<i>ND2</i>	-0,20	8,59E-03	-0,28	1,48E-04
ENSG00000120875	<i>DUSP4</i>	-1,15	5,96E-04	-1,28	1,48E-04
ENSG00000115641	<i>FHL2</i>	-1,52	5,64E-21	-0,63	1,54E-04
ENSG00000204387	<i>C6ORF48</i>	-0,39	1,43E-04	-0,39	1,54E-04
ENSG00000160209	<i>PDXK</i>	-0,22	6,46E-03	-0,30	1,58E-04
ENSG00000205339	<i>IPO7</i>	-0,90	7,63E-47	-0,26	1,59E-04
ENSG00000166887	<i>VPS39</i>	-0,33	4,20E-03	-0,43	1,59E-04
ENSG00000188895	<i>MSL1</i>	-0,29	1,21E-03	-0,34	1,61E-04
ENSG00000131778	<i>CHD1L</i>	-0,41	6,72E-07	-0,32	1,64E-04
ENSG00000153250	<i>RBMS1</i>	-0,62	1,10E-15	-0,31	1,76E-04
ENSG00000128595	<i>CALU</i>	-0,56	3,76E-17	-0,27	1,78E-04
ENSG00000163931	<i>TKT</i>	-0,35	9,15E-08	-0,25	1,78E-04
ENSG00000189334	<i>S100A14</i>	-0,92	4,92E-03	-1,21	1,86E-04
ENSG00000136888	<i>ATP6V1G1</i>	-1,03	4,02E-24	-0,41	1,96E-04
ENSG00000112699	<i>GMDS</i>	-0,73	1,03E-17	-0,34	1,98E-04
ENSG00000162885	<i>B3GALNT2</i>	-0,51	5,07E-04	-0,56	2,01E-04
ENSG00000198952	<i>SMG5</i>	-0,66	5,95E-15	-0,34	2,01E-04
ENSG00000112144	<i>ICK</i>	-0,44	2,64E-05	-0,40	2,05E-04

ENSG00000214274	ANG	-0,76	1,22E-07	-0,56	2,06E-04
ENSG00000109572	CLCN3	-0,32	1,66E-03	-0,38	2,09E-04
ENSG00000162383	SLC1A7	-1,30	6,68E-05	-1,24	2,09E-04
ENSG00000006459	JHDM1D	-1,26	3,23E-31	-0,43	2,22E-04
ENSG00000125798	FOXA2	-0,57	6,81E-06	-0,48	2,29E-04
ENSG00000131779	PEX11B	-0,52	3,81E-04	-0,55	2,32E-04
ENSG00000135404	CD63	-0,44	2,70E-07	-0,33	2,34E-04
ENSG00000197181	HSD3B7	-0,92	2,17E-03	-1,10	2,40E-04
ENSG00000101109	STK4	-0,22	6,78E-03	-0,29	2,44E-04
ENSG00000157985	AGAP1	-0,52	9,45E-08	-0,38	2,51E-04
ENSG00000185201	IFITM2	-1,91	2,52E-17	-0,84	2,65E-04
ENSG00000173020	ADRBK1	-0,40	5,43E-06	-0,33	2,67E-04
ENSG00000077150	NFKB2	-0,65	1,28E-05	-0,56	2,68E-04
ENSG00000166526	ZNF3	-0,48	1,42E-05	-0,42	2,70E-04
ENSG00000104611	SH2D4A	-0,64	2,47E-04	-0,64	2,72E-04
ENSG00000067225	LOC652797	-0,99	1,03E-39	-0,30	2,75E-04
ENSG00000106397	PLOD3	-1,03	2,16E-27	-0,37	2,79E-04
ENSG00000173065	C17ORF63	-0,75	3,99E-08	-0,52	2,81E-04
ENSG00000179195	ZNF664	-0,32	1,41E-04	-0,32	2,81E-04
ENSG00000131873	CHSY1	-1,21	4,65E-26	-0,44	2,84E-04
ENSG00000173334	TRIB1	-1,15	6,52E-39	-0,34	2,93E-04
ENSG00000144283	PKP4	-0,31	4,88E-04	-0,32	2,94E-04
ENSG00000171603	CLSTN1	-0,41	2,70E-06	-0,33	3,03E-04
ENSG00000148737	TCF7L2	-0,88	4,86E-12	-0,48	3,06E-04
ENSG00000184060	ADAP2	-1,13	2,99E-04	-1,14	3,08E-04
ENSG00000102317	RBM3	-0,62	2,83E-10	-0,38	3,12E-04
ENSG00000136859	ANGPTL2	-1,66	1,36E-13	-0,84	3,22E-04
ENSG00000151693	ASAP2	-0,80	1,56E-09	-0,50	3,22E-04
ENSG00000159399	HK2	-1,95	1,11E-119	-0,33	3,26E-04
ENSG00000103342	GSPT1	-0,27	1,77E-04	-0,26	3,39E-04
ENSG00000147883	CDKN2B	-0,94	6,19E-04	-1,00	3,54E-04
ENSG00000126457	PRMT1	-0,55	5,00E-13	-0,29	3,54E-04

ENSG00000104408	<i>EIF3E</i>	-0,46	5,84E-07	-0,35	3,54E-04
ENSG00000011275	<i>RNF216</i>	-0,39	5,92E-05	-0,35	3,61E-04
ENSG00000180263	<i>FGD6</i>	-0,60	1,01E-03	-0,65	3,64E-04
ENSG00000141456	<i>PELP1</i>	-0,28	8,97E-03	-0,37	3,77E-04
ENSG00000182087	<i>C19ORF6</i>	-0,39	2,05E-05	-0,33	3,92E-04
ENSG00000162772	<i>ATF3</i>	-0,99	3,00E-07	-0,71	4,14E-04
ENSG00000130702	<i>LAMA5</i>	-0,88	1,92E-21	-0,35	4,24E-04
ENSG00000125753	<i>VASP</i>	-0,64	5,66E-08	-0,43	4,39E-04
ENSG00000099617	<i>EFNA2</i>	-0,69	1,59E-04	-0,66	4,65E-04
ENSG00000114391	<i>RPL24</i>	-0,53	3,86E-11	-0,30	4,74E-04
ENSG00000177410	<i>C20ORF199</i>	-0,53	1,40E-05	-0,44	4,91E-04
ENSG00000147872	<i>PLIN2</i>	-1,18	1,26E-09	-0,72	5,00E-04
ENSG00000187017	<i>ESPN</i>	-0,49	4,16E-05	-0,43	5,28E-04
ENSG00000167291	<i>TBC1D16</i>	-0,69	1,51E-16	-0,31	5,29E-04
ENSG00000253522	<i>MIR3142HG</i>	-0,99	1,44E-03	-1,09	5,46E-04
ENSG00000125848	<i>FLRT3</i>	-1,14	7,73E-06	-0,91	5,50E-04
ENSG00000125503	<i>PPP1R12C</i>	-0,50	4,31E-04	-0,50	5,50E-04
ENSG00000160691	<i>SHC1</i>	-0,40	1,58E-06	-0,30	5,54E-04
ENSG00000071073	<i>MGAT4A</i>	-0,95	4,51E-34	-0,29	5,59E-04
ENSG00000181467	<i>RAP2B</i>	-0,54	4,45E-05	-0,47	5,78E-04
ENSG00000134086	<i>VHL</i>	-0,25	6,92E-03	-0,31	5,78E-04
ENSG00000158711	<i>ELK4</i>	-0,62	1,34E-08	-0,40	5,84E-04
ENSG00000073849	<i>ST6GAL1</i>	-0,57	4,45E-19	-0,24	6,28E-04
ENSG00000198720	<i>ANKRD13B</i>	-0,83	4,08E-03	-0,99	6,57E-04
ENSG00000101493	<i>ZNF516</i>	-0,46	7,27E-05	-0,40	6,81E-04
ENSG00000218226	<i>TATDN2P2</i>	-1,34	3,38E-12	-0,68	6,99E-04
ENSG00000164543	<i>STK17A</i>	-0,36	4,56E-03	-0,43	7,03E-04
ENSG00000151414	<i>NEK7</i>	-0,88	4,16E-10	-0,50	7,13E-04
ENSG00000143126	<i>CELSR2</i>	-0,73	5,00E-10	-0,42	7,19E-04
ENSG00000140943	<i>MBTPS1</i>	-0,51	1,83E-09	-0,31	7,24E-04
ENSG00000064651	<i>SLC12A2</i>	-0,58	9,92E-05	-0,52	7,63E-04
ENSG00000106348	<i>IMPDH1</i>	-0,33	9,73E-03	-0,43	7,73E-04

ENSG00000099904	<i>ZDHC8</i>	-0,61	1,48E-04	-0,55	7,92E-04
ENSG00000103353	<i>UBFD1</i>	-0,27	5,60E-05	-0,23	8,09E-04
ENSG00000129521	<i>EGLN3</i>	-2,26	7,22E-20	-0,89	8,34E-04
ENSG00000167460	<i>TPM4</i>	-1,05	1,99E-54	-0,25	8,37E-04
ENSG00000099953	<i>MMP11</i>	-0,63	7,70E-04	-0,64	8,50E-04
ENSG00000197343	<i>ZNF655</i>	-0,31	1,17E-03	-0,33	8,51E-04
ENSG00000196961	<i>AP2A1</i>	-0,43	3,53E-06	-0,32	8,51E-04
ENSG00000132182	<i>NUP210</i>	-0,44	9,19E-08	-0,29	8,65E-04
ENSG00000079313	<i>REXO1</i>	-0,44	2,42E-03	-0,48	8,73E-04
ENSG00000105568	<i>PPP2R1A</i>	-0,28	2,50E-03	-0,31	8,75E-04
ENSG00000261713	<i>SSTR5-AS1</i>	-0,87	1,10E-04	-0,78	8,75E-04
ENSG00000196205	<i>EEF1A1P5</i>	-0,61	1,76E-05	-0,50	8,86E-04
ENSG00000131724	<i>IL13RA1</i>	-0,85	7,75E-34	-0,25	8,86E-04
ENSG00000174938	<i>SEZ6L2</i>	-0,92	1,38E-13	-0,44	9,01E-04
ENSG00000017373	<i>LOC100128100</i>	-0,72	1,16E-04	-0,64	9,10E-04
ENSG00000146282	<i>RARS2</i>	-0,57	9,02E-09	-0,35	9,16E-04
ENSG00000166562	<i>SEC11C</i>	-0,66	1,38E-11	-0,35	9,34E-04
ENSG00000196588	<i>MKL1</i>	-0,65	2,59E-05	-0,53	9,36E-04
ENSG00000130511	<i>SSBP4</i>	-1,10	4,86E-09	-0,66	9,42E-04
ENSG00000198938	<i>ATP6</i>	-0,46	2,73E-08	-0,29	9,45E-04
ENSG00000120738	<i>EGR1</i>	-1,75	8,02E-23	-0,61	9,63E-04
ENSG00000149823	<i>C11ORF2</i>	-0,48	9,19E-05	-0,42	9,70E-04
ENSG00000105656	<i>ELL</i>	-1,07	1,85E-08	-0,65	1,02E-03
ENSG00000183386	<i>FHL3</i>	-0,89	1,44E-05	-0,70	1,02E-03
ENSG00000088832	<i>FKBP1A</i>	-0,21	4,52E-03	-0,24	1,08E-03
ENSG00000236552	<i>RPL13AP5</i>	-0,69	4,59E-05	-0,58	1,10E-03
ENSG00000167244	<i>IGF2</i>	-0,85	8,47E-11	-0,46	1,12E-03
ENSG00000101752	<i>MIB1</i>	-0,35	5,90E-05	-0,30	1,14E-03
ENSG00000213741	<i>RPS29</i>	-0,73	8,31E-06	-0,56	1,15E-03
ENSG00000118046	<i>STK11</i>	-0,76	4,88E-13	-0,37	1,17E-03
ENSG00000182199	<i>SHMT2</i>	-0,69	8,63E-22	-0,26	1,18E-03
ENSG00000175832	<i>ETV4</i>	-0,73	1,73E-23	-0,26	1,19E-03

ENSG00000176871	<i>WSB2</i>	-0,42	4,08E-04	-0,39	1,19E-03
ENSG00000102003	<i>SYP</i>	-0,71	5,43E-03	-0,83	1,21E-03
ENSG00000148426	<i>C10ORF47</i>	-0,90	4,06E-07	-0,60	1,21E-03
ENSG00000130158	<i>DOCK6</i>	-0,97	9,38E-14	-0,45	1,22E-03
ENSG00000145495	<i>MARCH6</i>	-0,26	3,39E-03	-0,29	1,22E-03
ENSG00000085788	<i>DDHD2</i>	-0,58	1,87E-08	-0,36	1,23E-03
ENSG00000163788	<i>SNRK</i>	-0,60	3,96E-06	-0,44	1,25E-03
ENSG00000123131	<i>PRDX4</i>	-0,43	1,72E-06	-0,30	1,25E-03
ENSG00000184216	<i>IRAK1</i>	-0,90	4,70E-31	-0,27	1,27E-03
ENSG00000108557	<i>RAI1</i>	-0,41	1,62E-03	-0,42	1,30E-03
ENSG00000171456	<i>ASXL1</i>	-0,41	2,96E-07	-0,27	1,30E-03
ENSG00000176533	<i>GNG7</i>	-0,55	7,43E-03	-0,67	1,31E-03
ENSG00000092421	<i>SEMA6A</i>	-0,97	2,44E-11	-0,49	1,32E-03
ENSG00000112320	<i>SOBP</i>	-0,82	2,31E-08	-0,50	1,36E-03
ENSG00000064309	<i>CDON</i>	-0,58	1,95E-04	-0,52	1,41E-03
ENSG00000145623	<i>OSMR</i>	-1,45	4,42E-72	-0,28	1,43E-03
ENSG00000125089	<i>SH3TC1</i>	-0,91	1,61E-09	-0,51	1,44E-03
ENSG00000198363	<i>ASPH</i>	-0,50	2,55E-11	-0,26	1,44E-03
ENSG00000107372	<i>LOC732229</i>	-0,35	3,97E-04	-0,32	1,47E-03
ENSG00000158813	<i>EDA</i>	-0,46	4,75E-04	-0,43	1,48E-03
ENSG00000058335	<i>RASGRF1</i>	-1,12	8,58E-04	-1,09	1,49E-03
ENSG00000188021	<i>UBQLN2</i>	-0,60	1,02E-04	-0,51	1,51E-03
ENSG00000149218	<i>ENDOD1</i>	-0,77	9,57E-08	-0,48	1,55E-03
ENSG00000130173	<i>LOC55908</i>	-1,15	2,18E-16	-0,48	1,59E-03
ENSG00000047315	<i>POLR2B</i>	-0,22	4,49E-03	-0,25	1,61E-03
ENSG00000153944	<i>MSI2</i>	-0,53	3,11E-11	-0,27	1,61E-03
ENSG00000197077	<i>KIAA1671</i>	-0,33	1,71E-03	-0,34	1,61E-03
ENSG00000232803	<i>SLC04A1-AS1</i>	-1,35	3,75E-05	-1,08	1,62E-03
ENSG00000163479	<i>SSR2</i>	-0,46	1,53E-09	-0,26	1,68E-03
ENSG00000116514	<i>RNF19B</i>	-0,65	1,55E-05	-0,49	1,74E-03
ENSG00000174915	<i>PTDSS2</i>	-0,45	1,71E-03	-0,46	1,78E-03
ENSG00000142002	<i>DPP9</i>	-0,31	8,17E-03	-0,37	1,80E-03

ENSG00000144381	<i>HSPD1</i>	-0,56	4,01E-17	-0,23	1,90E-03
ENSG00000114127	<i>XRN1</i>	-0,49	7,69E-05	-0,40	1,93E-03
ENSG00000019186	<i>CYP24A1</i>	-0,71	9,39E-11	-0,36	1,93E-03
ENSG00000104897	<i>SF3A2</i>	-0,55	9,41E-05	-0,45	1,95E-03
ENSG00000130958	<i>SLC35D2</i>	-0,26	4,57E-03	-0,29	1,97E-03
ENSG00000110619	<i>CARS</i>	-0,84	1,87E-12	-0,39	1,97E-03
ENSG00000083444	<i>PLOD1</i>	-0,96	1,79E-33	-0,27	1,98E-03
ENSG00000156875	<i>HIAT1</i>	-0,29	2,68E-03	-0,30	2,09E-03
ENSG00000001617	<i>SEMA3F</i>	-0,53	8,35E-04	-0,51	2,09E-03
ENSG00000158528	<i>PPP1R9A</i>	-0,56	2,20E-08	-0,33	2,14E-03
ENSG00000142186	<i>SCYL1</i>	-0,64	1,27E-12	-0,30	2,16E-03
ENSG00000100029	<i>PES1</i>	-0,50	4,53E-06	-0,35	2,18E-03
ENSG00000198860	<i>TSEN15</i>	-0,56	1,68E-05	-0,42	2,23E-03
ENSG00000173638	<i>SLC19A1</i>	-0,45	2,58E-04	-0,39	2,25E-03
ENSG00000117010	<i>ZNF684</i>	-0,82	7,68E-05	-0,65	2,30E-03
ENSG00000114315	<i>HES1</i>	-0,67	2,07E-03	-0,68	2,38E-03
ENSG00000107263	<i>RAPGEF1</i>	-0,63	6,08E-13	-0,29	2,40E-03
ENSG00000132470	<i>ITGB4</i>	-0,53	7,75E-03	-0,61	2,42E-03
ENSG00000089351	<i>GRAMD1A</i>	-1,60	1,32E-32	-0,43	2,44E-03
ENSG00000085978	<i>ATG16L1</i>	-0,40	2,82E-04	-0,35	2,44E-03
ENSG00000115718	<i>PROC</i>	-0,40	1,43E-06	-0,27	2,47E-03
ENSG00000236609	<i>ZNF853</i>	-0,60	2,10E-04	-0,51	2,49E-03
ENSG00000023445	<i>BIRC3</i>	-0,58	9,99E-03	-0,68	2,51E-03
ENSG00000104055	<i>TGM5</i>	-1,03	2,41E-03	-1,04	2,53E-03
ENSG00000101294	<i>HM13</i>	-0,29	5,87E-04	-0,26	2,55E-03
ENSG00000146858	<i>ZC3HAV1L</i>	-0,55	7,19E-03	-0,62	2,59E-03
ENSG00000178188	<i>SH2B1</i>	-0,49	7,85E-05	-0,39	2,59E-03
ENSG00000162736	<i>NCSTN</i>	-0,41	1,90E-07	-0,26	2,61E-03
ENSG00000232324	<i>AC008440.10</i>	-0,91	6,80E-03	-1,02	2,68E-03
ENSG00000138678	<i>AGPAT9</i>	-0,56	7,39E-03	-0,63	2,70E-03
ENSG00000165661	<i>QSOX2</i>	-0,79	3,90E-16	-0,32	2,84E-03
ENSG00000254986	<i>DPP3</i>	-0,36	5,85E-04	-0,32	2,85E-03

ENSG00000166510	<i>CCDC68</i>	-0,92	1,37E-08	-0,51	2,92E-03
ENSG00000134058	<i>CDK7</i>	-0,44	7,85E-05	-0,35	2,92E-03
ENSG00000196781	<i>LOC645381</i>	-0,30	1,86E-03	-0,29	2,94E-03
ENSG00000064999	<i>ANKS1A</i>	-0,35	1,13E-03	-0,33	2,95E-03
ENSG00000162714	<i>ZNF496</i>	-0,60	5,33E-08	-0,35	2,96E-03
ENSG00000110711	<i>AIP</i>	-0,61	2,37E-08	-0,35	2,99E-03
ENSG00000183458	<i>RP11-958N24.1</i>	-1,05	1,87E-07	-0,63	2,99E-03
ENSG00000083454	<i>P2RX5</i>	-1,11	4,41E-04	-0,96	2,99E-03
ENSG00000151552	<i>QDPR</i>	-0,61	2,52E-09	-0,32	3,02E-03
ENSG00000123240	<i>OPTN</i>	-0,34	4,28E-03	-0,36	3,07E-03
ENSG00000129187	<i>DCTD</i>	-0,41	7,27E-06	-0,29	3,08E-03
ENSG00000049239	<i>H6PD</i>	-0,32	9,64E-05	-0,25	3,12E-03
ENSG00000122026	<i>RPL21</i>	-1,01	1,58E-29	-0,30	3,14E-03
ENSG00000136111	<i>TBC1D4</i>	-0,87	8,57E-28	-0,26	3,22E-03
ENSG00000131482	<i>G6PC</i>	-2,17	8,72E-28	-0,65	3,24E-03
ENSG00000126464	<i>PRR12</i>	-0,48	3,21E-03	-0,49	3,29E-03
ENSG00000049449	<i>RCN1</i>	-0,96	9,77E-16	-0,38	3,29E-03
ENSG00000105220	<i>GPI</i>	-0,48	5,29E-11	-0,24	3,30E-03
ENSG00000183723	<i>CMTM4</i>	-0,49	1,73E-08	-0,28	3,32E-03
ENSG00000105202	<i>FBL</i>	-0,25	7,14E-03	-0,27	3,33E-03
ENSG00000117505	<i>DR1</i>	-0,37	5,42E-04	-0,32	3,33E-03
ENSG00000138363	<i>ATIC</i>	-0,23	2,40E-03	-0,23	3,34E-03
ENSG00000084092	<i>C4ORF14</i>	-0,35	5,68E-03	-0,38	3,37E-03
ENSG00000134318	<i>ROCK2</i>	-0,46	4,33E-09	-0,25	3,39E-03
ENSG00000131781	<i>FMO5</i>	-1,03	2,41E-09	-0,55	3,39E-03
ENSG00000182979	<i>MTA1</i>	-0,56	1,66E-06	-0,36	3,40E-03
ENSG00000155130	<i>MARCKS</i>	-0,48	3,00E-07	-0,29	3,40E-03
ENSG00000136059	<i>VILL</i>	-0,99	8,94E-04	-0,90	3,47E-03
ENSG00000131446	<i>MGAT1</i>	-0,54	2,35E-10	-0,27	3,49E-03
ENSG00000173530	<i>TNFRSF10D</i>	-1,05	3,35E-28	-0,31	3,50E-03
ENSG00000151292	<i>CSNK1G3</i>	-0,55	3,09E-07	-0,33	3,66E-03
ENSG00000143570	<i>SLC39A1</i>	-0,25	7,36E-03	-0,27	3,74E-03

ENSG00000137962	<i>ARHGAP29</i>	-0,84	5,14E-19	-0,30	3,82E-03
ENSG00000146830	<i>GIGYF1</i>	-0,30	8,15E-03	-0,34	3,86E-03
ENSG00000147162	<i>OGT</i>	-0,37	1,80E-04	-0,30	3,90E-03
ENSG00000212907	<i>KRTAP4-11</i>	-0,41	7,04E-06	-0,28	3,95E-03
ENSG00000198756	<i>GLT25D2</i>	-1,62	1,09E-25	-0,47	3,98E-03
ENSG00000182095	<i>TNRC18B</i>	-1,02	7,83E-24	-0,32	4,00E-03
ENSG00000180574	<i>EIF2S3L</i>	-0,95	7,26E-04	-0,83	4,06E-03
ENSG00000104969	<i>SGTA</i>	-0,55	1,73E-10	-0,27	4,09E-03
ENSG00000085733	<i>CTTN</i>	-0,36	9,71E-07	-0,23	4,11E-03
ENSG00000162591	<i>MEGF6</i>	-0,43	8,01E-03	-0,47	4,16E-03
ENSG00000213654	<i>GPSM3</i>	-1,76	3,19E-08	-0,98	4,28E-03
ENSG00000132463	<i>GRSF1</i>	-0,30	5,42E-04	-0,26	4,29E-03
ENSG00000196233	<i>LCOR</i>	-0,33	2,22E-03	-0,32	4,30E-03
ENSG00000137266	<i>SLC22A23</i>	-0,59	2,94E-09	-0,30	4,38E-03
ENSG00000104964	<i>AES</i>	-0,84	2,49E-18	-0,30	4,50E-03
ENSG00000125912	<i>NCLN</i>	-0,54	1,08E-07	-0,31	4,51E-03
ENSG00000089916	<i>C14ORF118</i>	-0,34	5,36E-03	-0,35	4,52E-03
ENSG00000162604	<i>TM2D1</i>	-0,69	8,85E-05	-0,52	4,57E-03
ENSG00000198142	<i>ANKRD57</i>	-0,49	8,44E-08	-0,28	4,64E-03
ENSG00000136098	<i>NEK3</i>	-1,10	7,25E-19	-0,38	4,66E-03
ENSG00000074219	<i>TEAD2</i>	-1,28	2,76E-09	-0,65	4,70E-03
ENSG00000169251	<i>NMD3</i>	-0,43	1,47E-05	-0,30	4,85E-03
ENSG00000244306	<i>LINC01296</i>	-0,51	3,82E-04	-0,42	4,85E-03
ENSG00000157978	<i>LDLRAP1</i>	-0,58	2,32E-04	-0,46	4,87E-03
ENSG00000162729	<i>IGSF8</i>	-0,68	1,05E-06	-0,42	4,92E-03
ENSG00000134070	<i>IRAK2</i>	-0,44	8,81E-04	-0,38	4,96E-03
ENSG00000116251	<i>RPL22</i>	-0,53	8,27E-09	-0,28	5,00E-03
ENSG00000198408	<i>MGEA5</i>	-0,37	1,25E-04	-0,29	5,04E-03
ENSG00000185650	<i>ZFP36L1</i>	-0,49	8,96E-06	-0,33	5,07E-03
ENSG00000140931	<i>CMTM3</i>	-0,77	2,90E-12	-0,33	5,10E-03
ENSG00000134644	<i>PUM1</i>	-0,21	4,59E-03	-0,21	5,15E-03
ENSG00000163682	<i>RPL9</i>	-0,73	5,43E-16	-0,28	5,29E-03

ENSG00000104805	<i>NUCB1</i>	-0,35	2,77E-04	-0,28	5,61E-03
ENSG00000126934	<i>LOC407835</i>	-0,32	6,90E-03	-0,33	5,66E-03
ENSG00000148843	<i>PDCD11</i>	-0,60	3,79E-13	-0,25	5,68E-03
ENSG00000188735	<i>TMEM120B</i>	-0,44	5,26E-03	-0,45	5,69E-03
ENSG00000227210	<i>AC079145.4</i>	-1,13	6,27E-04	-0,94	5,88E-03
ENSG00000139679	<i>LPAR6</i>	-2,56	6,63E-78	-0,40	5,89E-03
ENSG00000152520	<i>PAN3</i>	-0,39	4,00E-03	-0,38	5,91E-03
ENSG00000125046	<i>C3ORF32</i>	-0,49	1,44E-06	-0,30	5,96E-03
ENSG00000148498	<i>PARD3</i>	-0,40	9,18E-06	-0,26	5,99E-03
ENSG00000141698	<i>NT5C3L</i>	-0,28	6,79E-03	-0,29	6,02E-03
ENSG00000081087	<i>OSTM1</i>	-0,41	3,21E-03	-0,39	6,08E-03
ENSG00000180354	<i>C7ORF41</i>	-0,75	4,31E-06	-0,47	6,09E-03
ENSG00000143970	<i>ASXL2</i>	-0,89	4,93E-27	-0,25	6,09E-03
ENSG00000128165	<i>ADM2</i>	-1,09	1,12E-13	-0,44	6,14E-03
ENSG00000174705	<i>SH3PXD2B</i>	-0,54	2,79E-03	-0,51	6,15E-03
ENSG00000170802	<i>FOXN2</i>	-0,99	7,82E-26	-0,28	6,34E-03
ENSG00000169692	<i>AGPAT2</i>	-1,19	9,31E-05	-0,87	6,36E-03
ENSG00000167615	<i>LENG8</i>	-0,55	3,86E-06	-0,35	6,44E-03
ENSG00000173212	<i>C10RF161</i>	-0,81	8,42E-04	-0,68	6,49E-03
ENSG00000160888	<i>IER2</i>	-0,58	2,38E-04	-0,45	6,50E-03
ENSG00000076201	<i>PTPN23</i>	-0,34	2,47E-03	-0,31	6,63E-03
ENSG00000151715	<i>TMEM45B</i>	-1,14	3,36E-24	-0,34	6,68E-03
ENSG00000225210	<i>DUXAP9</i>	-0,59	2,87E-03	-0,56	6,72E-03
ENSG00000167601	<i>AXL</i>	-0,73	3,05E-04	-0,58	6,73E-03
ENSG00000141580	<i>WDR45L</i>	-0,30	6,42E-04	-0,25	6,81E-03
ENSG00000160953	<i>MUM1</i>	-0,36	2,07E-03	-0,33	6,85E-03
ENSG00000130304	<i>SLC27A1</i>	-0,72	3,21E-03	-0,68	6,92E-03
ENSG00000167118	<i>URM1</i>	-0,33	6,29E-03	-0,33	6,94E-03
ENSG00000116478	<i>HDAC1</i>	-0,31	2,96E-04	-0,24	6,95E-03
ENSG00000156860	<i>FBR5</i>	-0,31	2,45E-03	-0,28	6,97E-03
ENSG00000173153	<i>ESRRA</i>	-0,55	1,23E-05	-0,36	7,12E-03
ENSG00000149806	<i>FAU</i>	-0,35	3,81E-03	-0,34	7,17E-03

ENSG00000114480	<i>GBE1</i>	-0,98	6,18E-17	-0,35	7,24E-03
ENSG00000052795	<i>FNIP2</i>	-0,97	1,73E-28	-0,26	7,24E-03
ENSG00000163930	<i>BAP1</i>	-0,26	4,31E-03	-0,25	7,39E-03
ENSG00000198242	<i>RPL23A</i>	-0,59	2,88E-03	-0,54	7,40E-03
ENSG00000187840	<i>EIF4EBP1</i>	-0,80	9,99E-10	-0,38	7,49E-03
ENSG00000198899	<i>ATP6</i>	-0,29	1,49E-05	-0,19	7,50E-03
ENSG00000168209	<i>DDIT4</i>	-1,59	3,06E-25	-0,43	7,79E-03
ENSG00000180644	<i>PRF1</i>	-1,15	5,83E-04	-0,93	7,84E-03
ENSG00000140545	<i>MFGE8</i>	-1,25	4,12E-07	-0,70	7,91E-03
ENSG00000117479	<i>SLC19A2</i>	-0,69	1,24E-14	-0,26	7,98E-03
ENSG00000250251	<i>PKD1P6</i>	-0,81	7,71E-05	-0,57	8,16E-03
ENSG00000138801	<i>PAPSS1</i>	-0,26	7,20E-03	-0,26	8,49E-03
ENSG00000112715	<i>VEGFA</i>	-0,95	1,63E-21	-0,29	8,50E-03
ENSG00000078403	<i>MLLT10</i>	-0,38	9,00E-05	-0,27	8,60E-03
ENSG00000178607	<i>ERN1</i>	-0,95	3,88E-08	-0,49	8,65E-03
ENSG00000102265	<i>TIMP1</i>	-1,00	9,35E-08	-0,53	8,75E-03
ENSG00000166068	<i>SPRED1</i>	-0,51	2,52E-04	-0,39	8,90E-03
ENSG00000170558	<i>CDH2</i>	-0,61	3,70E-08	-0,32	8,93E-03
ENSG00000122547	<i>EEPD1</i>	-0,77	1,42E-07	-0,41	9,00E-03
ENSG00000156482	<i>RPL30</i>	-0,60	8,92E-04	-0,50	9,06E-03
ENSG00000143499	<i>SMYD2</i>	-0,44	4,16E-05	-0,30	9,11E-03
ENSG00000159023	<i>EPB41</i>	-0,26	3,68E-03	-0,24	9,12E-03
ENSG00000238290	<i>RP11-431K24.1</i>	-1,17	2,92E-04	-0,89	9,19E-03
ENSG00000092445	<i>TYRO3</i>	-0,92	1,99E-17	-0,31	9,23E-03
ENSG00000149639	<i>C20ORF117</i>	-0,35	1,11E-03	-0,29	9,36E-03
ENSG00000137267	<i>TUBB2A</i>	-0,76	2,85E-07	-0,42	9,53E-03
ENSG00000164930	<i>FZD6</i>	-0,53	7,90E-04	-0,43	9,56E-03
ENSG00000131746	<i>TNS4</i>	-1,66	1,43E-09	-0,76	9,62E-03
ENSG00000109501	<i>WFS1</i>	-0,52	2,62E-06	-0,31	9,82E-03
ENSG00000084234	<i>APLP2</i>	-0,49	2,37E-15	-0,18	9,90E-03
ENSG00000153714	<i>C9ORF150</i>	-0,82	1,65E-05	-0,52	9,94E-03
ENSG00000243955	<i>GSTA1</i>	4,63	0,00E+00	3,37	2,05E-204

ENSG00000196975	<i>ANXA4</i>	1,28	2,59E-78	1,88	1,18E-170
ENSG00000170099	<i>SERPINA6</i>	1,32	1,15E-85	1,68	2,61E-139
ENSG00000165092	<i>ALDH1A1</i>	2,16	1,31E-228	1,64	1,06E-130
ENSG00000145692	<i>BHMT</i>	2,59	1,03E-117	2,43	4,08E-102
ENSG00000162817	<i>C1ORF115</i>	2,06	3,43E-162	1,62	5,47E-98
ENSG00000111846	<i>GCNT2</i>	1,30	5,62E-52	1,63	2,59E-81
ENSG00000172296	<i>SPTLC3</i>	1,00	1,08E-41	1,31	2,08E-71
ENSG00000066813	<i>ACSM2A</i>	2,70	2,34E-169	1,75	2,87E-68
ENSG00000168385	<i>SEPT2</i>	0,89	2,91E-51	0,88	3,17E-49
ENSG00000183747	<i>ACSM2B</i>	2,83	9,25E-72	2,30	3,65E-46
ENSG00000122787	<i>AKR1D1</i>	1,81	5,60E-81	1,34	4,96E-43
ENSG00000167780	<i>SOAT2</i>	0,47	1,61E-04	1,48	1,05E-39
ENSG00000172239	<i>LOC645139</i>	1,18	3,96E-37	1,20	2,77E-38
ENSG00000198099	<i>ADH4</i>	0,51	1,08E-07	1,17	2,14E-37
ENSG00000113790	<i>EHHADH</i>	0,77	5,77E-14	1,26	5,60E-37
ENSG00000171759	<i>PAH</i>	0,77	1,62E-35	0,78	2,54E-36
ENSG00000244067	<i>GSTA2</i>	4,00	6,53E-81	2,73	4,76E-36
ENSG00000102931	<i>ARL2BP</i>	1,93	1,38E-51	1,64	4,87E-36
ENSG00000178988	<i>MRFAP1L1</i>	1,21	5,90E-34	1,25	5,24E-36
ENSG00000105398	<i>SULT2A1</i>	1,23	6,04E-71	0,88	5,94E-36
ENSG00000139219	<i>COL2A1</i>	1,29	3,18E-10	2,40	4,88E-35
ENSG00000117528	<i>ABCD3</i>	0,94	2,81E-40	0,88	1,99E-34
ENSG00000188582	<i>PAQR9</i>	0,35	3,73E-03	1,28	2,29E-34
ENSG00000211452	<i>DIO1</i>	2,31	4,76E-65	1,71	3,15E-34
ENSG00000256162	<i>SMLR1</i>	0,69	2,10E-24	0,83	4,00E-34
ENSG00000131242	<i>RAB11FIP4</i>	0,88	1,87E-33	0,90	4,86E-34
ENSG00000167910	<i>CYP7A1</i>	2,50	1,38E-49	2,08	2,04E-33
ENSG00000166450	<i>PRTG</i>	0,46	1,69E-06	1,08	2,04E-33
ENSG00000113583	<i>C5ORF15</i>	0,75	8,20E-16	1,09	4,39E-33
ENSG00000111897	<i>SERINC1</i>	0,60	4,97E-12	1,01	5,17E-33
ENSG00000089597	<i>GANAB</i>	0,29	3,17E-04	0,88	7,34E-33
ENSG00000119711	<i>ALDH6A1</i>	1,26	2,85E-30	1,30	8,63E-32

ENSG00000129214	<i>SHBG</i>	0,71	4,98E-05	1,85	2,71E-31
ENSG00000147400	<i>CETN2</i>	0,78	2,51E-15	1,13	2,98E-31
ENSG00000073712	<i>FERMT2</i>	0,63	9,70E-15	0,92	1,27E-30
ENSG00000175567	<i>UCP2</i>	0,79	4,17E-13	1,21	2,54E-30
ENSG00000187189	<i>TSPYL4</i>	1,23	3,30E-31	1,21	9,88E-30
ENSG00000134962	<i>KLB</i>	0,52	1,24E-11	0,84	1,23E-29
ENSG00000104371	<i>DKK4</i>	2,09	2,71E-14	3,02	1,23E-29
ENSG00000078668	<i>VDAC3</i>	0,89	3,49E-32	0,86	2,16E-29
ENSG00000196502	<i>SULT1A1</i>	0,79	1,91E-24	0,87	2,21E-29
ENSG00000144118	<i>RALB</i>	1,26	4,73E-29	1,27	3,73E-29
ENSG00000113889	<i>KNG1</i>	0,62	1,44E-05	1,46	5,43E-28
ENSG00000154930	<i>ACSS1</i>	0,39	8,53E-05	1,00	2,62E-27
ENSG00000117601	<i>SERPINC1</i>	1,47	2,74E-90	0,81	2,35E-26
ENSG00000182326	<i>C1S</i>	1,84	2,36E-56	1,27	4,29E-26
ENSG00000112494	<i>UNC93A</i>	0,39	3,26E-03	1,26	5,52E-26
ENSG00000109814	<i>UGDH</i>	1,13	1,96E-66	0,71	6,94E-26
ENSG00000100814	<i>CCNB1IP1</i>	0,61	1,76E-08	1,09	7,77E-26
ENSG00000132541	<i>HRSP12</i>	0,60	1,49E-04	1,49	3,11E-25
ENSG00000172795	<i>DCP2</i>	0,42	9,38E-06	0,92	4,21E-25
ENSG00000165410	<i>CFL2</i>	0,62	8,11E-20	0,71	5,99E-25
ENSG00000081051	<i>AFP</i>	0,62	1,74E-18	0,73	2,01E-24
ENSG00000170482	<i>SLC23A1</i>	2,51	6,14E-56	1,70	2,05E-24
ENSG00000112078	<i>KCTD20</i>	0,65	1,61E-17	0,77	3,52E-24
ENSG00000120697	<i>ALG5</i>	1,07	1,62E-13	1,44	4,73E-24
ENSG00000120262	<i>C6ORF97</i>	1,02	5,83E-07	1,94	5,13E-24
ENSG00000096092	<i>TMEM14A</i>	1,76	2,39E-53	1,20	5,89E-24
ENSG00000134049	<i>IER3IP1</i>	1,00	2,11E-15	1,26	7,37E-24
ENSG00000171612	<i>SLC25A33</i>	0,58	4,49E-09	0,97	1,17E-23
ENSG00000072210	<i>ALDH3A2</i>	0,65	2,60E-19	0,72	2,25E-23
ENSG00000151632	<i>AKR1C2</i>	1,89	5,68E-140	0,77	2,30E-23
ENSG00000134717	<i>BTF3L4</i>	0,45	1,04E-04	1,08	2,33E-23
ENSG00000186106	<i>ANKRD46</i>	0,53	7,69E-05	1,24	2,52E-23

ENSG00000165526	<i>RPUSD4</i>	0,58	2,07E-07	1,03	3,80E-22
ENSG00000130779	<i>CLIP1</i>	0,38	3,28E-05	0,83	6,21E-22
ENSG00000140284	<i>SLC27A2</i>	0,69	3,55E-07	1,24	1,11E-21
ENSG00000163624	<i>CDS1</i>	0,56	5,71E-04	1,41	1,40E-21
ENSG00000152601	<i>MBNL1</i>	1,01	2,85E-30	0,86	1,62E-21
ENSG00000156510	<i>HKDC1</i>	1,22	4,12E-22	1,21	1,74E-21
ENSG00000152620	<i>C5ORF33</i>	0,33	1,11E-04	0,75	3,96E-21
ENSG00000146416	<i>AIG1</i>	0,67	3,12E-14	0,82	2,01E-20
ENSG00000196177	<i>ACADSB</i>	0,18	7,29E-03	0,57	2,59E-20
ENSG00000205364	<i>MT1M</i>	1,66	8,55E-08	2,74	3,63E-20
ENSG00000185155	<i>MIXL1</i>	0,90	3,03E-19	0,93	3,78E-20
ENSG00000102753	<i>KPNA3</i>	0,55	1,69E-11	0,74	3,78E-20
ENSG00000115425	<i>PECR</i>	0,63	4,43E-14	0,76	7,48E-20
ENSG00000196937	<i>FAM3C</i>	0,44	2,44E-03	1,19	1,64E-19
ENSG00000121578	<i>B4GALT4</i>	0,41	1,36E-03	1,04	2,09E-19
ENSG00000100744	<i>C14ORF129</i>	0,48	8,26E-04	1,17	2,55E-19
ENSG00000154080	<i>CHST9</i>	1,50	7,49E-19	1,53	2,80E-19
ENSG00000138823	<i>MTTP</i>	1,07	1,68E-31	0,83	7,26E-19
ENSG00000139324	<i>TMTC3</i>	1,15	5,63E-22	1,07	8,14E-19
ENSG00000115365	<i>LANCL1</i>	0,61	8,08E-18	0,63	8,69E-19
ENSG00000153130	<i>SCOC</i>	0,41	5,01E-05	0,85	1,13E-18
ENSG00000121858	<i>TNFSF10</i>	0,79	1,81E-14	0,90	2,46E-18
ENSG00000169562	<i>GJB1</i>	0,35	1,74E-05	0,68	5,43E-18
ENSG00000147255	<i>IGSF1</i>	0,70	3,17E-24	0,61	6,69E-18
ENSG00000153066	<i>TXNDC11</i>	0,52	4,01E-10	0,70	1,49E-17
ENSG00000008394	<i>MGST1</i>	0,80	2,35E-23	0,70	1,99E-17
ENSG00000111052	<i>LIN7A</i>	0,49	1,34E-06	0,82	2,34E-17
ENSG00000166035	<i>LIPC</i>	0,64	2,30E-08	0,94	4,65E-17
ENSG00000110169	<i>HPX</i>	1,70	8,79E-22	1,51	5,94E-17
ENSG00000198417	<i>MT1F</i>	2,10	1,10E-18	2,00	7,92E-17
ENSG00000132837	<i>DMGDH</i>	1,33	4,67E-20	1,23	1,08E-16
ENSG00000090512	<i>FETUB</i>	1,87	1,56E-19	1,74	1,61E-16

ENSG00000151090	<i>THRB</i>	1,27	3,34E-32	0,91	2,88E-16
ENSG00000138308	<i>PLA2G12B</i>	0,93	5,99E-15	0,98	3,11E-16
ENSG00000182985	<i>CADM1</i>	0,98	8,73E-30	0,73	3,17E-16
ENSG00000132677	<i>RHBG</i>	1,60	5,77E-60	0,84	3,19E-16
ENSG00000204899	<i>C13ORF37</i>	0,81	9,49E-09	1,12	3,25E-16
ENSG00000137869	<i>CYP19A1</i>	0,64	3,87E-06	1,08	5,94E-16
ENSG00000127946	<i>HIP1</i>	0,85	1,33E-08	1,19	7,00E-16
ENSG00000137831	<i>UACA</i>	0,58	1,10E-06	0,93	7,52E-16
ENSG00000204128	<i>C2ORF72</i>	0,66	3,06E-22	0,56	8,10E-16
ENSG00000196660	<i>SLC30A10</i>	0,68	8,92E-10	0,88	8,50E-16
ENSG00000133835	<i>HSD17B4</i>	0,42	5,61E-09	0,56	1,49E-15
ENSG00000205978	<i>NYNRIN</i>	2,23	4,84E-28	1,68	1,57E-15
ENSG00000170456	<i>DENND5B</i>	0,42	1,63E-05	0,73	2,18E-15
ENSG00000100997	<i>ABHD12</i>	0,44	5,04E-06	0,74	2,65E-15
ENSG00000184117	<i>NIPSNAP1</i>	0,30	2,21E-04	0,61	2,82E-15
ENSG00000141504	<i>SAT2</i>	0,91	9,51E-18	0,85	3,14E-15
ENSG00000144045	<i>DQX1</i>	0,55	3,06E-08	0,76	3,70E-15
ENSG00000112294	<i>ALDH5A1</i>	0,48	3,49E-08	0,68	3,72E-15
ENSG00000168234	<i>TTC39C</i>	0,89	8,85E-16	0,88	4,43E-15
ENSG00000170899	<i>GSTA4</i>	1,03	3,34E-20	0,89	5,98E-15
ENSG00000138356	<i>AOX1</i>	0,89	1,08E-36	0,57	8,04E-15
ENSG00000175854	<i>C9ORF119</i>	0,86	1,83E-08	1,17	9,36E-15
ENSG00000104325	<i>DECR1</i>	0,94	1,04E-18	0,84	9,69E-15
ENSG00000165650	<i>PDZD8</i>	0,66	1,25E-14	0,67	1,23E-14
ENSG00000138413	<i>IDH1</i>	0,67	4,10E-35	0,43	1,32E-14
ENSG00000069535	<i>MAOB</i>	1,12	9,82E-29	0,80	1,63E-14
ENSG00000119927	<i>GPAM</i>	0,93	7,26E-38	0,57	1,98E-14
ENSG00000114021	<i>NIT2</i>	0,52	7,95E-05	0,94	2,87E-14
ENSG00000115073	<i>ACTR1B</i>	0,49	1,77E-08	0,65	2,91E-14
ENSG00000100075	<i>SLC25A1</i>	0,84	5,15E-27	0,61	2,96E-14
ENSG00000131981	<i>LGALS3</i>	0,36	1,04E-03	0,78	3,02E-14
ENSG00000077254	<i>USP33</i>	0,72	3,69E-11	0,82	3,15E-14

ENSG00000156968	<i>MPV17L</i>	0,35	3,77E-03	0,84	5,14E-14
ENSG00000129354	<i>AP1M2</i>	1,62	4,23E-36	1,02	6,66E-14
ENSG00000143322	<i>ABL2</i>	0,60	1,42E-08	0,78	8,17E-14
ENSG00000117834	<i>SLC5A9</i>	1,09	3,54E-27	0,78	9,43E-14
ENSG00000183844	<i>FAM3B</i>	1,12	6,87E-21	0,91	1,06E-13
ENSG00000100867	<i>DHRS2</i>	0,53	1,27E-19	0,44	1,36E-13
ENSG00000079332	<i>SAR1A</i>	0,32	6,81E-04	0,65	3,40E-13
ENSG00000091483	<i>FH</i>	0,36	2,87E-05	0,61	4,28E-13
ENSG00000149809	<i>TM7SF2</i>	0,54	1,16E-06	0,78	4,41E-13
ENSG00000023909	<i>GCLM</i>	0,84	3,34E-16	0,76	5,38E-13
ENSG00000088766	<i>CRLS1</i>	0,44	9,54E-10	0,52	5,93E-13
ENSG00000143921	<i>ABCG8</i>	1,60	3,73E-35	0,98	6,57E-13
ENSG00000111275	<i>ALDH2</i>	0,71	1,41E-15	0,64	1,16E-12
ENSG00000089220	<i>PEBP1</i>	0,67	1,63E-22	0,50	1,22E-12
ENSG00000124370	<i>MCEE</i>	0,51	7,01E-04	0,99	1,36E-12
ENSG00000152078	<i>TMEM56</i>	0,82	6,17E-18	0,69	1,40E-12
ENSG00000137992	<i>DBT</i>	0,42	4,45E-03	0,95	1,74E-12
ENSG00000124383	<i>MPHOSPH10</i>	0,49	1,61E-11	0,52	1,80E-12
ENSG00000072364	<i>AFF4</i>	0,51	1,94E-10	0,57	1,87E-12
ENSG00000138796	<i>HADH</i>	0,57	1,25E-09	0,66	1,98E-12
ENSG00000228716	<i>DHFR</i>	0,63	1,69E-11	0,67	2,24E-12
ENSG00000181019	<i>NQO1</i>	1,33	1,28E-70	0,55	2,36E-12
ENSG00000144908	<i>ALDH1L1</i>	1,22	1,90E-31	0,77	2,39E-12
ENSG00000187630	<i>DHRS4L2</i>	0,89	5,02E-11	0,95	2,55E-12
ENSG00000080824	<i>HSP90AA1</i>	0,35	1,33E-10	0,38	2,71E-12
ENSG00000196083	<i>IL1RAP</i>	0,57	4,78E-09	0,67	5,87E-12
ENSG00000128311	<i>TST</i>	0,55	2,78E-06	0,79	6,59E-12
ENSG00000109205	<i>ODAM</i>	0,51	1,89E-03	1,04	6,76E-12
ENSG00000178802	<i>MPI</i>	0,40	4,89E-04	0,74	8,69E-12
ENSG00000116774	<i>OLFML3</i>	2,58	2,21E-30	1,63	9,13E-12
ENSG00000164134	<i>NAA15</i>	0,43	4,16E-05	0,68	9,26E-12
ENSG00000168060	<i>NAALADL1</i>	1,63	1,96E-37	0,92	9,78E-12

ENSG00000171848	<i>RRM2</i>	0,40	3,25E-08	0,49	1,10E-11
ENSG00000106853	<i>PTGR1</i>	2,74	2,92E-65	1,17	1,50E-11
ENSG00000117280	<i>RAB7L1</i>	0,77	1,98E-07	0,98	1,50E-11
ENSG00000167074	<i>TEF</i>	0,98	1,27E-10	1,03	1,63E-11
ENSG00000166483	<i>WEE1</i>	0,39	5,10E-04	0,72	1,85E-11
ENSG00000115255	<i>REEP6</i>	1,21	2,73E-21	0,89	1,88E-11
ENSG00000125144	<i>MT1G</i>	1,80	3,38E-13	1,68	2,00E-11
ENSG00000243818	<i>RP11-372E1.4</i>	1,02	4,49E-08	1,23	2,21E-11
ENSG00000117632	<i>STMN1</i>	0,33	6,56E-05	0,53	2,32E-11
ENSG00000092841	<i>MYL6</i>	0,24	5,84E-03	0,55	2,33E-11
ENSG00000070501	<i>POLB</i>	0,97	7,28E-12	0,96	3,72E-11
ENSG00000197535	<i>MYO5A</i>	0,81	2,94E-09	0,90	3,74E-11
ENSG00000091583	<i>APOH</i>	0,80	5,09E-43	0,40	4,67E-11
ENSG00000082146	<i>STRADB</i>	0,66	3,26E-15	0,56	4,86E-11
ENSG00000173482	<i>PTPRM</i>	0,61	1,09E-10	0,62	4,89E-11
ENSG00000180964	<i>TCEAL8</i>	0,37	7,92E-03	0,83	6,38E-11
ENSG00000108187	<i>PBLD</i>	1,42	8,75E-11	1,43	9,04E-11
ENSG00000159322	<i>ADPGK</i>	0,36	8,65E-04	0,66	1,11E-10
ENSG00000149679	<i>CABLES2</i>	0,74	2,34E-07	0,90	1,53E-10
ENSG00000132437	<i>DDC</i>	0,98	6,70E-22	0,68	1,61E-10
ENSG00000182704	<i>TSKU</i>	1,38	1,44E-38	0,72	1,77E-10
ENSG00000128394	<i>APOBEC3F</i>	0,87	1,12E-03	1,59	1,83E-10
ENSG00000108479	<i>GALK1</i>	0,91	3,25E-17	0,71	1,84E-10
ENSG00000171174	<i>RBKS</i>	0,59	4,84E-04	1,02	1,92E-10
ENSG00000064225	<i>ST3GAL6</i>	0,70	1,19E-08	0,79	2,29E-10
ENSG00000138036	<i>DYNC2LI1</i>	0,58	8,06E-04	1,03	2,46E-10
ENSG00000137274	<i>BPHL</i>	0,60	1,70E-04	0,96	3,01E-10
ENSG00000198130	<i>HIBCH</i>	0,31	5,60E-03	0,66	3,01E-10
ENSG00000197894	<i>ADH5</i>	0,24	4,13E-04	0,40	4,57E-10
ENSG00000076003	<i>MCM6</i>	0,95	6,43E-20	0,68	5,37E-10
ENSG00000170873	<i>MTSS1</i>	0,69	2,03E-14	0,58	5,67E-10
ENSG00000070087	<i>PFN2</i>	0,46	1,34E-06	0,59	5,77E-10

ENSG00000108576	<i>SLC6A4</i>	1,05	9,77E-18	0,79	5,84E-10
ENSG00000237172	<i>B3GNT9</i>	1,19	3,97E-05	1,73	6,32E-10
ENSG00000099968	<i>BCL2L13</i>	0,68	5,10E-08	0,78	6,86E-10
ENSG00000145703	<i>IQGAP2</i>	0,57	4,14E-16	0,45	6,88E-10
ENSG00000110436	<i>SLC1A2</i>	0,25	4,79E-03	0,51	7,98E-10
ENSG00000198074	<i>AKR1B10</i>	2,76	4,56E-120	0,79	1,05E-09
ENSG00000151413	<i>NUBPL</i>	0,92	7,12E-19	0,66	1,19E-09
ENSG00000148180	<i>GSN</i>	0,80	2,29E-44	0,37	1,19E-09
ENSG00000118508	<i>RAB32</i>	0,62	1,22E-10	0,59	1,39E-09
ENSG00000029364	<i>SLC39A9</i>	0,73	2,17E-17	0,54	1,39E-09
ENSG00000234127	<i>TRIM26</i>	1,10	4,55E-30	0,62	1,54E-09
ENSG00000120860	<i>CCDC53</i>	0,70	2,79E-05	0,97	1,71E-09
ENSG00000105852	<i>PON3</i>	1,22	2,49E-18	0,88	2,07E-09
ENSG00000130770	<i>ATPIF1</i>	0,38	2,87E-03	0,71	2,11E-09
ENSG00000177565	<i>TBL1XR1</i>	0,83	4,06E-17	0,62	2,28E-09
ENSG00000143819	<i>EPHX1</i>	1,53	1,10E-69	0,56	2,33E-09
ENSG00000186115	<i>CYP4F2</i>	0,79	2,46E-04	1,22	2,54E-09
ENSG00000095209	<i>TMEM38B</i>	0,47	3,93E-04	0,76	2,67E-09
ENSG00000131844	<i>MCCC2</i>	0,35	9,10E-06	0,46	2,78E-09
ENSG00000138078	<i>PREPL</i>	0,66	1,81E-11	0,59	3,25E-09
ENSG00000174327	<i>SLC16A13</i>	1,01	1,02E-10	0,94	3,41E-09
ENSG00000124713	<i>GNMT</i>	1,83	1,24E-14	1,46	3,47E-09
ENSG00000013583	<i>HEBP1</i>	0,96	6,95E-11	0,89	3,69E-09
ENSG00000150977	<i>RILPL2</i>	1,10	3,04E-15	0,85	3,90E-09
ENSG00000100373	<i>UPK3A</i>	2,24	4,01E-36	1,14	4,47E-09
ENSG00000062282	<i>DGAT2</i>	1,35	5,35E-46	0,60	4,74E-09
ENSG00000148584	<i>A1CF</i>	0,57	6,60E-09	0,58	4,75E-09
ENSG00000039068	<i>CDH1</i>	0,81	3,11E-08	0,85	7,83E-09
ENSG00000113494	<i>PRLR</i>	0,34	5,72E-03	0,67	7,83E-09
ENSG00000115355	<i>CCDC88A</i>	0,28	7,61E-03	0,56	8,32E-09
ENSG00000162433	<i>AK3L1</i>	0,47	1,52E-10	0,43	8,63E-09
ENSG00000042286	<i>AIFM2</i>	0,80	1,22E-16	0,58	9,09E-09

ENSG00000147475	<i>ERLIN2</i>	0,29	9,14E-04	0,48	1,03E-08
ENSG00000038210	<i>PI4K2B</i>	0,44	1,35E-06	0,52	1,11E-08
ENSG00000171100	<i>MTM1</i>	0,52	7,60E-05	0,73	1,16E-08
ENSG00000145476	<i>CYP4V2</i>	0,60	9,23E-05	0,85	1,21E-08
ENSG00000070061	<i>IKBKAP</i>	0,56	2,20E-16	0,40	1,26E-08
ENSG00000014641	<i>MDH1</i>	0,26	1,53E-03	0,45	1,30E-08
ENSG00000141349	<i>G6PC3</i>	0,35	6,26E-03	0,67	1,40E-08
ENSG00000161533	<i>ACOX1</i>	0,43	3,93E-09	0,42	1,43E-08
ENSG00000166816	<i>LDHD</i>	1,06	5,37E-08	1,11	1,75E-08
ENSG00000115919	<i>KYNU</i>	0,55	5,21E-09	0,54	1,77E-08
ENSG00000183978	<i>CCDC56</i>	0,65	1,21E-11	0,56	1,81E-08
ENSG00000251164	<i>HULC</i>	0,92	1,71E-06	1,07	2,21E-08
ENSG00000197165	<i>SULT1A2</i>	1,07	1,26E-17	0,74	2,22E-08
ENSG00000119333	<i>WDR34</i>	0,66	1,28E-06	0,76	2,35E-08
ENSG00000162704	<i>ARPC5</i>	0,41	3,69E-05	0,54	2,59E-08
ENSG00000131018	<i>SYNE1</i>	1,43	1,93E-44	0,61	3,03E-08
ENSG00000231574	<i>KCCAT211</i>	1,69	3,39E-10	1,53	3,27E-08
ENSG00000143158	<i>BRP44</i>	0,89	1,80E-14	0,67	3,45E-08
ENSG00000100983	<i>GSS</i>	0,62	2,98E-13	0,49	3,96E-08
ENSG00000166974	<i>MAPRE2</i>	0,27	9,23E-03	0,53	5,41E-08
ENSG00000129691	<i>ASH2L</i>	0,57	1,87E-08	0,56	6,35E-08
ENSG00000142166	<i>IFNAR1</i>	0,49	3,28E-07	0,52	6,71E-08
ENSG00000197557	<i>TTC30A</i>	0,82	5,03E-04	1,22	6,71E-08
ENSG00000134575	<i>ACP2</i>	0,52	1,21E-04	0,72	7,31E-08
ENSG00000165934	<i>CPSF2</i>	0,37	3,19E-05	0,47	7,60E-08
ENSG00000188690	<i>UROS</i>	0,65	9,25E-07	0,71	7,76E-08
ENSG00000117305	<i>HMGCL</i>	0,49	1,60E-04	0,68	8,00E-08
ENSG00000102804	<i>TSC22D1</i>	0,95	4,22E-19	0,60	9,15E-08
ENSG00000141034	<i>C17ORF39</i>	0,58	1,36E-03	0,93	9,47E-08
ENSG00000180667	<i>YOD1</i>	0,45	1,02E-03	0,69	9,49E-08
ENSG00000006282	<i>SPATA20</i>	0,92	3,69E-21	0,55	9,51E-08
ENSG00000139410	<i>SDSL</i>	0,92	1,20E-03	1,45	9,93E-08

ENSG00000173402	<i>DAG1</i>	0,30	3,03E-04	0,43	1,03E-07
ENSG00000110243	<i>APOA5</i>	0,43	7,61E-06	0,51	1,06E-07
ENSG00000166311	<i>SMPD1</i>	0,85	4,83E-07	0,90	1,08E-07
ENSG00000095139	<i>ARCN1</i>	0,35	3,09E-07	0,37	1,10E-07
ENSG00000005189	<i>LOC81691</i>	1,05	2,16E-11	0,86	1,17E-07
ENSG00000176974	<i>SHMT1</i>	0,82	1,94E-14	0,60	1,32E-07
ENSG00000088305	<i>DNMT3B</i>	0,99	3,38E-12	0,79	1,33E-07
ENSG00000004897	<i>CDC27</i>	0,22	5,14E-03	0,40	1,42E-07
ENSG00000120948	<i>TARDBP</i>	0,41	6,75E-08	0,40	1,45E-07
ENSG00000115486	<i>GGCX</i>	0,43	3,82E-07	0,45	1,48E-07
ENSG00000187164	<i>KIAA1598</i>	0,40	1,69E-04	0,55	1,53E-07
ENSG00000205423	<i>LOC100130176</i>	0,69	1,12E-06	0,75	1,53E-07
ENSG00000117408	<i>IPO13</i>	0,78	7,15E-12	0,62	1,66E-07
ENSG00000113594	<i>LIFR</i>	0,51	4,42E-06	0,58	1,83E-07
ENSG00000162735	<i>PEX19</i>	0,48	1,71E-05	0,58	1,86E-07
ENSG00000124120	<i>TTPAL</i>	0,76	2,19E-13	0,56	1,97E-07
ENSG00000087586	<i>AURKA</i>	0,38	1,11E-06	0,41	2,38E-07
ENSG00000164039	<i>BDH2</i>	1,44	1,05E-14	1,02	2,43E-07
ENSG00000198919	<i>DZIP3</i>	0,85	1,55E-13	0,62	2,46E-07
ENSG00000137713	<i>PPP2R1B</i>	0,30	4,16E-05	0,38	2,48E-07
ENSG00000155640	<i>C10ORF12</i>	0,70	8,48E-05	0,91	2,48E-07
ENSG00000094631	<i>HDAC6</i>	0,63	1,97E-12	0,48	2,62E-07
ENSG00000135617	<i>C2ORF7</i>	1,23	3,31E-14	0,88	2,65E-07
ENSG00000139865	<i>TTC6</i>	0,98	1,88E-09	0,86	2,86E-07
ENSG00000147465	<i>STAR</i>	1,15	1,04E-08	1,05	2,98E-07
ENSG00000106789	<i>CORO2A</i>	0,50	3,91E-07	0,51	3,02E-07
ENSG00000132840	<i>BHMT2</i>	0,43	1,26E-04	0,57	3,04E-07
ENSG00000092820	<i>EZR</i>	0,53	5,10E-12	0,41	3,06E-07
ENSG00000172955	<i>ADH6</i>	0,82	1,20E-30	0,39	3,15E-07
ENSG00000156398	<i>SFXN2</i>	0,92	1,36E-09	0,80	3,15E-07
ENSG00000181274	<i>FRAT2</i>	0,86	1,94E-08	0,80	3,33E-07
ENSG00000170915	<i>PAQR8</i>	0,44	2,13E-06	0,47	4,03E-07

ENSG00000158793	<i>NIT1</i>	0,50	1,62E-03	0,77	4,20E-07
ENSG00000157326	<i>DHRS4</i>	0,76	1,41E-05	0,88	4,29E-07
ENSG00000168246	<i>UBTD2</i>	0,29	6,12E-03	0,51	4,51E-07
ENSG00000139194	<i>RBP5</i>	1,03	2,90E-08	0,96	4,54E-07
ENSG00000136935	<i>GOLGA1</i>	0,73	3,56E-13	0,53	4,69E-07
ENSG00000163964	<i>PIGX</i>	0,38	9,82E-03	0,70	4,69E-07
ENSG00000104524	<i>PYCRL</i>	0,61	4,63E-03	1,01	5,18E-07
ENSG00000163644	<i>PPM1K</i>	0,76	5,45E-04	1,07	5,66E-07
ENSG00000197780	<i>TAF13</i>	0,64	1,71E-05	0,73	6,58E-07
ENSG00000080371	<i>RAB21</i>	0,56	1,40E-07	0,54	6,71E-07
ENSG00000150764	<i>DIXDC1</i>	0,57	7,79E-10	0,48	7,33E-07
ENSG00000137561	<i>TTPA</i>	2,11	7,06E-19	1,27	8,09E-07
ENSG00000168566	<i>SNRNP48</i>	0,33	7,61E-04	0,46	8,16E-07
ENSG00000185515	<i>BRCC3</i>	0,34	5,59E-03	0,57	8,24E-07
ENSG00000198721	<i>PECI</i>	0,52	3,80E-07	0,51	8,40E-07
ENSG00000138175	<i>ARL3</i>	0,54	3,96E-03	0,87	8,46E-07
ENSG00000075945	<i>KIFAP3</i>	0,87	7,36E-08	0,82	8,63E-07
ENSG00000108984	<i>MAP2K6</i>	1,35	8,29E-13	0,98	8,69E-07
ENSG00000142677	<i>IL22RA1</i>	1,30	9,58E-21	0,73	1,06E-06
ENSG00000239713	<i>APOBEC3G</i>	1,20	4,73E-05	1,43	1,08E-06
ENSG00000101003	<i>GINS1</i>	0,30	8,25E-03	0,52	1,10E-06
ENSG00000152056	<i>AP1S3</i>	0,56	1,03E-03	0,81	1,11E-06
ENSG00000198001	<i>IRAK4</i>	0,74	8,23E-05	0,90	1,17E-06
ENSG00000091262	<i>ABCC6</i>	1,12	1,90E-33	0,49	1,18E-06
ENSG00000254233	<i>RP11-242J7.1</i>	1,48	6,97E-15	0,98	1,21E-06
ENSG00000170445	<i>HARS</i>	0,32	2,76E-03	0,50	1,24E-06
ENSG00000185745	<i>IFIT1</i>	1,79	2,82E-14	1,21	1,25E-06
ENSG00000204682	<i>C10ORF114</i>	0,61	1,84E-04	0,78	1,27E-06
ENSG00000156735	<i>BAG4</i>	0,31	4,23E-03	0,50	1,28E-06
ENSG00000179528	<i>LBX2</i>	1,14	3,54E-09	0,97	1,33E-06
ENSG00000183044	<i>ABAT</i>	0,46	1,22E-09	0,37	1,47E-06
ENSG00000034693	<i>PEX3</i>	0,52	4,66E-04	0,70	1,71E-06

ENSG00000083093	<i>PALB2</i>	0,54	2,08E-07	0,50	2,36E-06
ENSG00000158435	<i>C2ORF29</i>	0,34	2,04E-04	0,43	2,38E-06
ENSG00000124508	<i>BTN2A2</i>	0,72	4,45E-05	0,83	2,41E-06
ENSG00000144852	<i>NR1I2</i>	1,46	1,20E-18	0,84	2,45E-06
ENSG00000122591	<i>FAM126A</i>	0,46	7,74E-07	0,45	2,46E-06
ENSG00000116906	<i>GNPAT</i>	0,60	3,54E-15	0,38	2,53E-06
ENSG00000164187	<i>LMBRD2</i>	0,46	7,88E-03	0,77	2,57E-06
ENSG00000185787	<i>MORF4</i>	0,29	2,40E-05	0,32	2,79E-06
ENSG00000212978	<i>AC016747.3</i>	0,82	5,76E-09	0,68	2,83E-06
ENSG00000164089	<i>AGXT2L1</i>	1,63	3,10E-13	1,11	2,97E-06
ENSG00000006576	<i>PHTF2</i>	0,44	3,85E-03	0,67	3,06E-06
ENSG00000120265	<i>PCMT1</i>	0,37	8,55E-06	0,39	3,08E-06
ENSG00000035141	<i>FAM136A</i>	0,75	2,64E-16	0,46	3,23E-06
ENSG00000166391	<i>MOGAT2</i>	1,30	2,29E-50	0,45	3,26E-06
ENSG00000127952	<i>STYXL1</i>	0,55	1,34E-03	0,77	3,49E-06
ENSG00000101400	<i>SNTA1</i>	0,85	2,13E-12	0,59	3,55E-06
ENSG00000135387	<i>CAPRIN1</i>	0,63	2,39E-25	0,30	3,57E-06
ENSG00000178772	<i>CPN2</i>	0,96	2,21E-31	0,42	3,81E-06
ENSG00000144401	<i>FAM119A</i>	0,55	8,25E-06	0,58	3,98E-06
ENSG00000100714	<i>MTHFD1</i>	0,43	4,03E-08	0,37	4,11E-06
ENSG00000100897	<i>DCAF11</i>	0,35	1,87E-07	0,32	4,35E-06
ENSG00000198585	<i>NUDT16</i>	0,74	4,52E-12	0,51	4,70E-06
ENSG00000106780	<i>MEGF9</i>	0,42	8,28E-05	0,49	4,87E-06
ENSG00000138744	<i>NAAA</i>	0,49	1,03E-03	0,66	5,15E-06
ENSG00000118564	<i>FBXL5</i>	0,52	1,55E-05	0,55	5,42E-06
ENSG00000178537	<i>SLC25A20</i>	1,36	1,26E-27	0,62	6,28E-06
ENSG00000142892	<i>PIGK</i>	0,43	7,69E-04	0,57	6,41E-06
ENSG00000103496	<i>STX4</i>	0,69	6,43E-08	0,60	6,46E-06
ENSG00000137364	<i>TPMT</i>	0,55	1,59E-05	0,58	6,55E-06
ENSG00000145217	<i>SLC26A1</i>	0,92	1,48E-10	0,68	6,91E-06
ENSG00000167046	<i>FLJ32154</i>	1,65	1,59E-07	1,45	7,06E-06
ENSG00000083799	<i>CYLD</i>	0,46	1,27E-04	0,54	7,56E-06

ENSG00000182378	<i>PLCXD1</i>	0,29	1,45E-04	0,34	7,76E-06
ENSG00000250799	<i>PRODH2</i>	0,62	2,40E-10	0,46	7,81E-06
ENSG00000130988	<i>RGN</i>	0,75	4,43E-12	0,51	8,36E-06
ENSG00000142507	<i>PSMB6</i>	0,28	9,40E-03	0,45	9,04E-06
ENSG00000127884	<i>ECHS1</i>	0,27	1,36E-03	0,37	9,05E-06
ENSG00000179761	<i>PIPOX</i>	0,98	5,73E-48	0,33	1,04E-05
ENSG00000164124	<i>TMEM144</i>	0,50	2,51E-03	0,70	1,14E-05
ENSG00000176209	<i>C8ORF40</i>	0,55	7,01E-03	0,85	1,16E-05
ENSG00000197375	<i>SLC22A5</i>	0,52	7,27E-03	0,80	1,26E-05
ENSG00000186088	<i>PION</i>	0,64	4,74E-05	0,69	1,27E-05
ENSG00000079482	<i>OPHN1</i>	0,83	7,16E-04	1,05	1,39E-05
ENSG00000159403	<i>C1R</i>	1,26	1,70E-06	1,17	1,47E-05
ENSG00000155629	<i>PIK3AP1</i>	0,91	2,42E-06	0,85	1,47E-05
ENSG00000110245	<i>APOC3</i>	0,79	4,84E-24	0,36	1,59E-05
ENSG00000163743	<i>RCHY1</i>	1,26	1,59E-19	0,66	1,59E-05
ENSG00000124588	<i>NQO2</i>	0,77	8,22E-08	0,64	1,62E-05
ENSG00000128581	<i>RABL5</i>	0,71	1,10E-03	0,92	1,62E-05
ENSG00000151502	<i>VPS26B</i>	0,47	3,94E-06	0,45	1,69E-05
ENSG00000137714	<i>FDX1</i>	0,43	3,56E-03	0,61	1,71E-05
ENSG00000119812	<i>FAM98A</i>	0,27	3,42E-03	0,39	1,75E-05
ENSG00000079974	<i>RABL2B</i>	0,86	8,44E-06	0,84	2,01E-05
ENSG00000039537	<i>C6</i>	1,10	8,92E-04	1,39	2,05E-05
ENSG00000173898	<i>SPTBN2</i>	0,51	7,93E-05	0,55	2,18E-05
ENSG00000166347	<i>CYB5A</i>	0,62	3,13E-12	0,40	2,23E-05
ENSG00000198624	<i>CCDC69</i>	0,97	1,03E-21	0,47	2,26E-05
ENSG00000172367	<i>PDZD3</i>	2,12	1,56E-11	1,40	2,61E-05
ENSG00000139055	<i>ERP27</i>	1,98	4,41E-17	1,08	2,82E-05
ENSG00000169955	<i>ZNF747</i>	0,62	1,41E-03	0,79	3,04E-05
ENSG00000173193	<i>PARP14</i>	1,55	1,51E-45	0,51	3,20E-05
ENSG00000172007	<i>RAB33B</i>	0,68	5,36E-05	0,71	3,34E-05
ENSG00000142156	<i>COL6A1</i>	0,87	1,39E-10	0,60	3,36E-05
ENSG00000197417	<i>SHPK</i>	0,58	8,94E-03	0,88	3,44E-05

ENSG00000114107	<i>CEP70</i>	0,86	8,80E-08	0,70	3,48E-05
ENSG00000005469	<i>CROT</i>	0,78	1,04E-08	0,59	3,77E-05
ENSG00000170439	<i>METTL7B</i>	1,23	6,36E-17	0,66	4,03E-05
ENSG00000104687	<i>GSR</i>	0,40	1,70E-06	0,35	4,07E-05
ENSG00000084693	<i>AGBL5</i>	0,27	8,09E-03	0,40	4,09E-05
ENSG00000125868	<i>DSTN</i>	0,33	5,96E-05	0,35	4,14E-05
ENSG00000198689	<i>SLC9A6</i>	0,81	1,98E-06	0,72	4,42E-05
ENSG00000204536	<i>CCHCR1</i>	0,71	2,28E-07	0,58	4,44E-05
ENSG00000180198	<i>RCC1</i>	0,40	6,85E-06	0,38	4,48E-05
ENSG00000144535	<i>DIS3L2</i>	0,78	6,30E-09	0,58	4,73E-05
ENSG00000092208	<i>SIP1</i>	0,49	6,14E-05	0,50	4,85E-05
ENSG00000116171	<i>SCP2</i>	0,47	3,99E-09	0,34	4,94E-05
ENSG00000012174	<i>MBTPS2</i>	0,64	1,69E-10	0,43	5,41E-05
ENSG00000117155	<i>SSX2IP</i>	0,68	6,58E-07	0,58	5,45E-05
ENSG00000135218	<i>CD36</i>	2,09	1,67E-39	0,73	5,68E-05
ENSG00000121579	<i>NAA50</i>	0,31	3,69E-05	0,30	5,72E-05
ENSG00000165475	<i>CRYL1</i>	0,39	5,56E-04	0,46	5,91E-05
ENSG00000121486	<i>C1ORF25</i>	0,39	3,49E-03	0,52	6,16E-05
ENSG00000204439	<i>C6ORF47</i>	0,94	6,61E-05	0,96	6,18E-05
ENSG00000188010	<i>MORN2</i>	1,23	1,23E-08	0,91	6,20E-05
ENSG00000136960	<i>ENPP2</i>	1,66	1,99E-37	0,59	6,39E-05
ENSG00000164244	<i>PRRC1</i>	0,39	2,08E-06	0,34	6,46E-05
ENSG00000100350	<i>FOXRED2</i>	0,61	4,52E-12	0,37	6,53E-05
ENSG00000238164	<i>RP3-395M20.8</i>	1,19	3,65E-05	1,17	6,59E-05
ENSG00000228889	<i>UBAC2-AS1</i>	0,88	7,07E-03	1,25	6,66E-05
ENSG00000140525	<i>FANCI</i>	0,53	1,13E-07	0,41	7,28E-05
ENSG00000102048	<i>ASB9</i>	1,24	2,43E-12	0,76	7,47E-05
ENSG00000168393	<i>DTYMK</i>	0,32	5,78E-03	0,44	8,19E-05
ENSG00000104889	<i>RNASEH2A</i>	0,64	2,17E-05	0,61	8,23E-05
ENSG00000115216	<i>NRBP1</i>	0,25	7,36E-04	0,29	8,26E-05
ENSG00000198964	<i>SGMS1</i>	0,78	2,58E-09	0,55	8,75E-05
ENSG00000196659	<i>TTC30B</i>	0,84	1,71E-03	1,03	9,17E-05

ENSG00000185875	<i>THNSL1</i>	0,76	7,44E-05	0,76	9,54E-05
ENSG00000111802	<i>TTRAP</i>	0,66	3,54E-13	0,38	9,63E-05
ENSG00000126953	<i>TIMM8A</i>	0,55	1,05E-04	0,56	1,02E-04
ENSG00000005889	<i>ZFX</i>	0,43	1,43E-06	0,36	1,05E-04
ENSG00000004961	<i>HCCS</i>	0,43	4,45E-03	0,57	1,09E-04
ENSG00000145386	<i>CCNA2</i>	0,38	1,95E-05	0,35	1,10E-04
ENSG00000135090	<i>TAOK3</i>	0,67	9,00E-08	0,51	1,10E-04
ENSG00000110318	<i>KIAA1377</i>	1,08	2,32E-07	0,85	1,13E-04
ENSG00000185697	<i>MYBL1</i>	1,40	9,33E-12	0,86	1,14E-04
ENSG00000133739	<i>LRRCC1</i>	0,76	6,43E-05	0,75	1,14E-04
ENSG00000122481	<i>RWDD3</i>	0,39	9,29E-03	0,56	1,15E-04
ENSG00000040275	<i>CCDC99</i>	0,36	5,66E-03	0,48	1,17E-04
ENSG00000156299	<i>TIAM1</i>	1,83	2,57E-09	1,26	1,22E-04
ENSG00000113161	<i>HMGCR</i>	0,24	4,88E-03	0,32	1,27E-04
ENSG00000125354	<i>SEPT6</i>	0,36	1,21E-03	0,42	1,28E-04
ENSG00000183549	<i>ACSM5</i>	1,12	7,12E-10	0,75	1,31E-04
ENSG00000144357	<i>UBR3</i>	0,28	1,88E-03	0,34	1,31E-04
ENSG00000107175	<i>CREB3</i>	0,46	2,29E-04	0,48	1,31E-04
ENSG00000187134	<i>AKR1C1</i>	1,68	5,78E-140	0,28	1,37E-04
ENSG00000148672	<i>GLUD1</i>	0,32	3,67E-06	0,27	1,37E-04
ENSG00000187824	<i>TMEM220</i>	0,97	4,86E-04	1,06	1,42E-04
ENSG00000101335	<i>MYL9</i>	0,83	1,51E-04	0,84	1,47E-04
ENSG00000119638	<i>NEK9</i>	0,66	2,75E-11	0,40	1,48E-04
ENSG00000182093	<i>WRB</i>	0,46	4,85E-04	0,50	1,54E-04
ENSG00000165006	<i>UBAP1</i>	0,73	6,74E-12	0,44	1,55E-04
ENSG00000196510	<i>ANAPC7</i>	0,35	3,07E-03	0,45	1,57E-04
ENSG00000198203	<i>SULT1C2</i>	1,80	1,14E-23	0,77	1,57E-04
ENSG00000177485	<i>ZBTB33</i>	0,42	6,43E-05	0,40	1,62E-04
ENSG00000197859	<i>ADAMTSL2</i>	0,73	3,02E-03	0,92	1,70E-04
ENSG00000143942	<i>CHAC2</i>	0,66	4,45E-03	0,85	1,75E-04
ENSG00000120913	<i>PDLIM2</i>	0,59	9,99E-04	0,67	1,89E-04
ENSG00000114784	<i>EIF1B</i>	0,44	4,56E-05	0,42	1,89E-04

ENSG00000134326	<i>CMPK2</i>	0,90	9,05E-03	1,25	2,10E-04
ENSG00000196922	<i>ZNF252</i>	0,83	5,00E-11	0,50	2,26E-04
ENSG00000165646	<i>SLC18A2</i>	1,02	2,72E-06	0,84	2,28E-04
ENSG00000135828	<i>RNASEL</i>	1,08	1,22E-03	1,23	2,35E-04
ENSG00000110042	<i>DTX4</i>	1,64	2,77E-17	0,80	2,37E-04
ENSG00000187546	<i>TMEM195</i>	1,14	7,29E-04	1,24	2,42E-04
ENSG00000164830	<i>OXR1</i>	0,51	1,06E-05	0,44	2,46E-04
ENSG00000137752	<i>CASP1</i>	2,25	1,96E-22	0,96	2,52E-04
ENSG00000126016	<i>AMOT</i>	1,24	4,19E-06	1,03	2,54E-04
ENSG00000130717	<i>UCK1</i>	1,17	1,34E-20	0,51	2,56E-04
ENSG00000100347	<i>SAMM50</i>	0,45	1,48E-05	0,39	2,66E-04
ENSG00000172070	<i>SRXN1</i>	1,20	1,46E-16	0,59	2,74E-04
ENSG00000163382	<i>APOA1BP</i>	0,38	2,05E-03	0,45	2,76E-04
ENSG00000134398	<i>ERN2</i>	1,14	1,45E-05	0,99	2,82E-04
ENSG00000008311	<i>AASS</i>	0,72	2,63E-07	0,54	2,86E-04
ENSG00000185813	<i>PCYT2</i>	0,44	8,40E-09	0,30	2,86E-04
ENSG00000078487	<i>ZCWPW1</i>	0,91	1,88E-03	1,06	2,89E-04
ENSG00000104549	<i>SQLE</i>	0,26	4,95E-04	0,28	2,91E-04
ENSG00000158865	<i>SLC5A11</i>	2,49	1,64E-20	1,09	3,00E-04
ENSG00000114446	<i>IFT57</i>	0,77	3,06E-04	0,78	3,07E-04
ENSG00000143815	<i>LBR</i>	0,38	4,87E-06	0,31	3,09E-04
ENSG00000132854	<i>KANK4</i>	0,75	8,43E-13	0,42	3,11E-04
ENSG00000197043	<i>ANXA6</i>	0,66	8,12E-23	0,27	3,16E-04
ENSG00000114686	<i>MRPL3</i>	0,38	3,62E-05	0,34	3,28E-04
ENSG00000137563	<i>GGH</i>	0,51	3,68E-07	0,38	3,33E-04
ENSG00000203797	<i>DDO</i>	0,90	1,30E-06	0,70	3,45E-04
ENSG00000099991	<i>CABIN1</i>	0,71	2,85E-15	0,35	3,74E-04
ENSG00000049245	<i>VAMP3</i>	0,38	6,86E-06	0,31	4,13E-04
ENSG00000124164	<i>VAPB</i>	0,49	3,96E-10	0,29	4,24E-04
ENSG00000082438	<i>COBL1</i>	0,69	1,84E-20	0,29	4,37E-04
ENSG00000023697	<i>DERA</i>	0,40	1,37E-03	0,44	4,41E-04
ENSG00000143653	<i>SCCPDH</i>	0,35	4,75E-04	0,36	4,53E-04

ENSG00000159348	<i>CYB5R1</i>	0,67	9,39E-05	0,62	4,59E-04
ENSG00000184517	<i>ZFP1</i>	0,61	9,65E-04	0,66	4,60E-04
ENSG00000258821	/	1,47	1,67E-06	1,13	4,61E-04
ENSG00000178966	<i>RMI1</i>	0,65	1,04E-05	0,53	4,84E-04
ENSG00000100652	<i>SLC10A1</i>	1,73	6,51E-08	1,18	4,89E-04
ENSG00000168002	<i>POLR2G</i>	0,36	8,15E-03	0,47	5,02E-04
ENSG00000148225	<i>WDR31</i>	1,14	1,04E-04	1,05	5,82E-04
ENSG00000100664	<i>EIF5</i>	0,61	1,63E-19	0,26	5,86E-04
ENSG00000099260	<i>PALMD</i>	0,77	1,75E-13	0,39	6,06E-04
ENSG00000156587	<i>UBE2L6</i>	0,91	2,70E-11	0,51	6,08E-04
ENSG00000002016	<i>RAD52</i>	0,48	7,31E-03	0,60	6,26E-04
ENSG00000205765	<i>C5ORF51</i>	0,39	5,77E-04	0,39	6,38E-04
ENSG00000108395	<i>TRIM37</i>	0,45	1,52E-05	0,37	6,55E-04
ENSG00000129562	<i>DAD1</i>	0,25	3,65E-03	0,29	6,73E-04
ENSG00000095321	<i>CRAT</i>	0,44	6,39E-05	0,38	7,31E-04
ENSG00000123080	<i>CDKN2C</i>	0,77	3,91E-05	0,66	7,39E-04
ENSG00000182165	<i>TP53TG1</i>	0,58	2,50E-03	0,65	7,51E-04
ENSG00000205873	/	0,82	7,19E-06	0,65	7,63E-04
ENSG00000129596	<i>CDO1</i>	1,34	3,76E-14	0,66	7,87E-04
ENSG00000182511	<i>FES</i>	0,69	2,46E-04	0,65	7,92E-04
ENSG00000008869	<i>HEATR5B</i>	0,53	1,49E-06	0,39	7,99E-04
ENSG00000117450	<i>PRDX1</i>	0,55	8,01E-22	0,21	8,01E-04
ENSG00000156253	<i>RWDD2B</i>	0,55	1,58E-04	0,51	8,21E-04
ENSG00000139405	<i>C12ORF52</i>	0,99	3,23E-12	0,52	8,29E-04
ENSG00000149591	<i>TAGLN</i>	1,06	1,72E-09	0,64	8,31E-04
ENSG00000171307	<i>ZDHHC16</i>	0,39	8,30E-04	0,40	8,51E-04
ENSG00000183624	<i>C3ORF37</i>	0,52	2,36E-05	0,43	8,53E-04
ENSG00000182179	<i>UBA7</i>	0,91	4,96E-08	0,60	8,60E-04
ENSG00000173744	<i>AGFG1</i>	0,27	7,48E-04	0,28	8,60E-04
ENSG00000113368	<i>LMNB1</i>	0,29	2,34E-03	0,32	8,62E-04
ENSG00000184227	<i>ACOT1</i>	0,39	8,62E-03	0,49	8,65E-04
ENSG00000140463	<i>BBS4</i>	0,63	2,44E-04	0,59	8,78E-04

ENSG00000178150	<i>ZNF114</i>	1,38	5,96E-11	0,77	8,81E-04
ENSG00000188827	<i>BTBD12</i>	1,38	1,01E-15	0,64	8,87E-04
ENSG00000119946	<i>CNNM1</i>	0,46	8,04E-03	0,56	8,92E-04
ENSG00000130005	<i>GAMT</i>	0,83	4,14E-21	0,33	9,22E-04
ENSG00000215039	<i>CD27-AS1</i>	0,81	3,60E-03	0,92	9,38E-04
ENSG00000138315	<i>OIT3</i>	1,02	4,26E-07	0,71	9,50E-04
ENSG00000112210	<i>RAB23</i>	0,50	4,39E-04	0,48	1,08E-03
ENSG00000164308	<i>ERAP2</i>	0,88	2,84E-11	0,48	1,09E-03
ENSG00000138794	<i>CASP6</i>	0,76	7,91E-06	0,59	1,11E-03
ENSG00000127084	<i>FGD3</i>	0,98	9,32E-04	0,98	1,16E-03
ENSG00000137204	<i>SLC22A7</i>	3,00	5,25E-78	0,63	1,16E-03
ENSG00000164305	<i>CASP3</i>	0,36	1,74E-04	0,32	1,18E-03
ENSG00000124357	<i>NAGK</i>	0,75	2,67E-08	0,47	1,23E-03
ENSG00000169894	<i>LOC100134216</i>	1,03	2,30E-03	1,10	1,30E-03
ENSG00000143036	<i>SLC44A3</i>	0,86	1,89E-04	0,77	1,30E-03
ENSG00000137575	<i>SDCBP</i>	0,35	2,85E-04	0,32	1,31E-03
ENSG00000154265	<i>ABCA5</i>	1,47	5,68E-27	0,50	1,31E-03
ENSG00000176542	<i>KIAA2018</i>	0,37	4,70E-03	0,42	1,32E-03
ENSG00000137133	<i>HINT2</i>	0,60	8,90E-05	0,51	1,33E-03
ENSG00000162460	<i>TMEM82</i>	1,60	2,95E-07	1,07	1,36E-03
ENSG00000204147	<i>ASAH2B</i>	0,51	5,78E-03	0,59	1,43E-03
ENSG00000145246	<i>ATP10D</i>	1,31	5,36E-09	0,78	1,49E-03
ENSG00000123739	<i>PLA2G12A</i>	0,55	2,52E-04	0,49	1,55E-03
ENSG00000116120	<i>FARSB</i>	0,29	2,97E-03	0,31	1,58E-03
ENSG00000128039	<i>SRD5A3</i>	0,67	4,07E-04	0,62	1,60E-03
ENSG00000165060	<i>FXN</i>	0,68	1,11E-06	0,47	1,66E-03
ENSG00000160703	<i>NLRX1</i>	0,60	8,54E-08	0,38	1,67E-03
ENSG00000135637	<i>CCDC142</i>	1,26	9,01E-20	0,50	1,67E-03
ENSG00000160172	<i>LOC100125556</i>	0,90	1,19E-03	0,89	1,70E-03
ENSG00000137720	<i>C11ORF1</i>	0,71	3,53E-04	0,65	1,70E-03
ENSG00000140526	<i>ABHD2</i>	0,50	3,46E-11	0,26	1,71E-03
ENSG00000164252	<i>AGGF1</i>	0,39	6,97E-04	0,37	1,72E-03

ENSG00000184898	<i>RBM43</i>	1,12	2,65E-05	0,88	1,76E-03
ENSG00000204569	<i>PPP1R10</i>	0,34	1,39E-03	0,34	1,78E-03
ENSG00000104870	<i>FCGRT</i>	0,59	9,51E-14	0,27	1,80E-03
ENSG00000162972	<i>C2ORF47</i>	0,44	1,07E-03	0,43	1,86E-03
ENSG00000164007	<i>CLDN19</i>	1,16	2,45E-10	0,63	1,88E-03
ENSG00000150712	<i>MTMR12</i>	0,40	1,50E-06	0,28	1,89E-03
ENSG00000206337	<i>HCP5</i>	1,13	3,08E-05	0,89	1,92E-03
ENSG00000055957	<i>ITIH1</i>	0,73	5,43E-06	0,53	2,03E-03
ENSG00000111875	<i>ASF1A</i>	0,48	1,12E-05	0,36	2,05E-03
ENSG00000169604	<i>ANTXR1</i>	0,60	1,50E-08	0,36	2,07E-03
ENSG00000112297	<i>AIM1</i>	0,54	2,64E-11	0,28	2,08E-03
ENSG00000073921	<i>PICALM</i>	0,52	3,91E-14	0,23	2,09E-03
ENSG00000120696	<i>KBTBD7</i>	0,63	3,22E-05	0,49	2,09E-03
ENSG00000206527	<i>PTPLB</i>	0,56	6,16E-12	0,27	2,11E-03
ENSG00000198830	<i>HMGN2</i>	0,31	3,63E-04	0,28	2,15E-03
ENSG00000116752	<i>BCAS2</i>	0,41	1,74E-03	0,41	2,16E-03
ENSG00000134057	<i>CCNB1</i>	0,29	5,79E-04	0,27	2,18E-03
ENSG00000130349	<i>C6ORF203</i>	0,60	9,97E-03	0,70	2,25E-03
ENSG00000185339	<i>TCN2</i>	2,12	1,04E-11	1,05	2,25E-03
ENSG00000131504	<i>DIAPH1</i>	0,34	6,80E-07	0,23	2,29E-03
ENSG00000143545	<i>LOC100131294</i>	0,44	3,44E-03	0,46	2,30E-03
ENSG00000112110	<i>MRPL18</i>	0,35	9,91E-04	0,34	2,36E-03
ENSG00000254004	<i>ZNF260</i>	0,58	7,21E-05	0,47	2,38E-03
ENSG00000037042	<i>TUBG2</i>	0,54	1,98E-04	0,46	2,41E-03
ENSG00000112983	<i>BRD8</i>	0,31	9,97E-04	0,29	2,43E-03
ENSG00000204852	<i>TCTN1</i>	0,59	5,53E-03	0,65	2,46E-03
ENSG00000110013	<i>SIAE</i>	0,56	1,83E-05	0,42	2,49E-03
ENSG00000146477	<i>SLC22A3</i>	0,46	1,05E-05	0,34	2,51E-03
ENSG00000177951	<i>BET1L</i>	0,33	8,10E-03	0,38	2,52E-03
ENSG00000137700	<i>SLC37A4</i>	0,43	7,91E-06	0,31	2,53E-03
ENSG00000164040	<i>PGRMC2</i>	0,27	2,38E-03	0,28	2,54E-03
ENSG00000213366	<i>GSTM2</i>	1,16	9,05E-07	0,77	2,58E-03

ENSG00000175279	<i>APITD1</i>	0,94	3,48E-03	0,98	2,58E-03
ENSG00000109099	<i>PMP22</i>	1,03	1,65E-09	0,57	2,59E-03
ENSG00000156136	<i>DCK</i>	0,39	6,84E-03	0,44	2,61E-03
ENSG00000108846	<i>ABCC3</i>	1,08	9,66E-28	0,34	2,63E-03
ENSG00000111445	<i>RFC5</i>	0,77	3,95E-08	0,46	2,64E-03
ENSG00000149476	<i>DAK</i>	0,37	2,75E-07	0,24	2,75E-03
ENSG00000177879	<i>AP3S1</i>	0,33	9,79E-04	0,31	2,78E-03
ENSG00000177000	<i>MTHFR</i>	0,97	4,10E-09	0,54	2,88E-03
ENSG00000125827	<i>TMX4</i>	0,49	1,03E-07	0,30	3,09E-03
ENSG00000166801	<i>FAM111A</i>	1,05	1,59E-10	0,54	3,15E-03
ENSG00000197386	<i>HTT</i>	0,73	3,15E-16	0,30	3,20E-03
ENSG00000136870	<i>ZNF189</i>	0,32	6,25E-04	0,28	3,21E-03
ENSG00000146476	<i>C6ORF211</i>	0,29	7,75E-03	0,33	3,23E-03
ENSG00000138075	<i>ABCG5</i>	0,83	2,89E-11	0,41	3,28E-03
ENSG00000100612	<i>DHRS7</i>	0,46	7,81E-04	0,41	3,36E-03
ENSG00000146904	<i>EPHA1</i>	1,81	6,10E-25	0,60	3,40E-03
ENSG00000140368	<i>PSTPIP1</i>	0,97	9,51E-04	0,89	3,44E-03
ENSG00000166913	<i>YWHAB</i>	0,27	2,11E-04	0,22	3,61E-03
ENSG00000186635	<i>ARAP1</i>	0,32	3,60E-04	0,27	3,67E-03
ENSG00000121057	<i>AKAP1</i>	0,74	1,49E-20	0,26	3,75E-03
ENSG00000116954	<i>RRAGC</i>	1,13	1,58E-16	0,45	3,80E-03
ENSG00000118418	<i>HMGN3</i>	0,60	2,30E-09	0,32	3,89E-03
ENSG00000140465	<i>CYP1A1</i>	0,76	5,65E-04	0,66	3,95E-03
ENSG00000167315	<i>ACAA2</i>	0,35	1,80E-04	0,28	3,97E-03
ENSG00000072415	<i>MPP5</i>	0,40	2,92E-04	0,33	3,98E-03
ENSG00000177125	<i>ZBTB34</i>	0,52	7,00E-04	0,46	4,04E-03
ENSG00000125355	<i>FAM70A</i>	1,17	4,48E-04	1,00	4,04E-03
ENSG00000166938	<i>DIS3L</i>	0,55	4,42E-08	0,32	4,05E-03
ENSG00000115685	<i>PPP1R7</i>	0,59	2,89E-08	0,34	4,05E-03
ENSG00000169715	<i>MT1E</i>	1,15	4,15E-08	0,65	4,12E-03
ENSG00000113369	<i>ARRDC3</i>	0,39	2,73E-03	0,39	4,14E-03
ENSG00000000003	<i>TSPAN6</i>	0,33	4,35E-05	0,24	4,16E-03

ENSG00000136810	<i>TXN</i>	0,32	8,02E-05	0,25	4,31E-03
ENSG00000255121	<i>RP11-110I1.12</i>	0,79	5,10E-03	0,82	4,34E-03
ENSG00000178425	<i>NT5DC1</i>	0,36	1,40E-03	0,33	4,36E-03
ENSG00000108424	<i>KPNB1</i>	0,18	5,81E-03	0,19	4,37E-03
ENSG00000196704	<i>AMZ2</i>	0,39	1,19E-05	0,27	4,38E-03
ENSG00000129514	<i>FOXA1</i>	0,59	6,88E-10	0,30	4,40E-03
ENSG00000129480	<i>C14ORF126</i>	0,42	2,95E-04	0,34	4,41E-03
ENSG00000005020	<i>SKAP2</i>	0,89	8,92E-12	0,42	4,44E-03
ENSG00000109181	<i>UGT2B10</i>	0,40	3,21E-04	0,33	4,62E-03
ENSG00000102230	<i>PCYT1B</i>	0,81	1,44E-06	0,52	4,71E-03
ENSG00000171067	<i>C11ORF24</i>	0,37	3,16E-05	0,27	4,85E-03
ENSG00000111671	<i>SPSB2</i>	0,83	1,89E-03	0,77	5,02E-03
ENSG00000119185	<i>ITGB1BP1</i>	0,50	2,66E-06	0,33	5,03E-03
ENSG00000174799	<i>CEP135</i>	0,58	2,35E-03	0,54	5,17E-03
ENSG00000154305	<i>MIA3</i>	0,26	5,48E-03	0,27	5,25E-03
ENSG00000149658	<i>YTHDF1</i>	0,50	3,23E-09	0,26	5,30E-03
ENSG00000139684	<i>ESD</i>	0,33	1,29E-03	0,29	5,35E-03
ENSG00000132744	<i>ACY3</i>	1,86	2,29E-19	0,67	5,37E-03
ENSG00000112312	<i>GMNN</i>	0,32	7,33E-04	0,28	5,41E-03
ENSG00000181894	<i>ZNF329</i>	0,51	8,38E-03	0,54	5,41E-03
ENSG00000196533	<i>C10RF186</i>	0,99	6,60E-09	0,53	5,47E-03
ENSG00000183578	<i>TNFAIP8L3</i>	0,91	3,87E-04	0,74	5,68E-03
ENSG00000159314	<i>SH3D20</i>	0,58	5,37E-05	0,42	5,69E-03
ENSG00000114779	<i>ABHD14B</i>	0,65	5,95E-10	0,32	5,69E-03
ENSG00000100888	<i>CHD8</i>	0,26	5,96E-04	0,22	5,87E-03
ENSG00000108515	<i>ENO3</i>	1,08	5,49E-15	0,44	6,04E-03
ENSG00000168938	<i>PPIC</i>	0,69	1,03E-04	0,52	6,09E-03
ENSG00000076555	<i>ACACB</i>	0,94	1,34E-12	0,41	6,14E-03
ENSG00000117461	<i>PIK3R3</i>	1,36	1,05E-15	0,54	6,17E-03
ENSG00000179163	<i>FUCA1</i>	0,60	7,33E-08	0,33	6,45E-03
ENSG00000255277	<i>ABCC6P2</i>	0,79	3,65E-04	0,64	6,50E-03
ENSG00000214530	<i>STARD10</i>	0,78	6,28E-25	0,24	6,51E-03

ENSG00000075399	<i>C16ORF7</i>	1,02	2,46E-06	0,64	6,76E-03
ENSG00000230356	<i>NCAPD2P1</i>	1,03	9,31E-08	0,58	6,77E-03
ENSG00000183161	<i>FANCF</i>	0,54	2,18E-03	0,49	6,94E-03
ENSG00000106399	<i>RPA3</i>	0,44	1,43E-03	0,39	7,05E-03
ENSG00000063322	<i>MED29</i>	0,66	5,78E-10	0,32	7,06E-03
ENSG00000121691	<i>CAT</i>	0,26	1,02E-03	0,22	7,11E-03
ENSG00000128534	<i>NAA38</i>	0,75	2,08E-07	0,43	7,17E-03
ENSG00000111247	<i>RAD51AP1</i>	0,47	3,67E-04	0,37	7,31E-03
ENSG00000167528	<i>ZNF641</i>	0,93	1,37E-07	0,53	7,40E-03
ENSG00000006634	<i>DBF4</i>	0,58	4,27E-06	0,37	7,43E-03
ENSG00000173992	<i>CCS</i>	0,50	1,58E-04	0,37	7,55E-03
ENSG00000184481	<i>FOXO4</i>	0,79	1,40E-05	0,53	7,68E-03
ENSG00000145022	<i>TCTA</i>	0,73	7,69E-07	0,43	8,06E-03
ENSG00000081177	<i>EXD2</i>	0,41	5,17E-03	0,40	8,22E-03
ENSG00000170264	<i>FAM161A</i>	0,60	6,23E-03	0,59	8,25E-03
ENSG00000105968	<i>H2AFV</i>	0,49	1,23E-09	0,24	8,30E-03
ENSG00000143633	<i>C10RF131</i>	0,63	1,03E-05	0,41	8,35E-03
ENSG00000114999	<i>TTL</i>	0,27	2,87E-03	0,24	8,52E-03
ENSG00000089177	<i>KIF16B</i>	0,48	3,77E-05	0,33	8,61E-03
ENSG00000137449	<i>CPEB2</i>	1,17	8,46E-09	0,60	8,65E-03
ENSG00000159228	<i>CBR1</i>	0,57	5,75E-05	0,40	8,73E-03
ENSG00000139428	<i>MMAB</i>	0,47	2,50E-04	0,35	8,82E-03
ENSG00000109846	<i>CRYAB</i>	0,92	6,70E-03	0,90	8,95E-03
ENSG00000143416	<i>SELENBP1</i>	0,95	9,57E-13	0,40	9,00E-03
ENSG00000197763	<i>TXNRD3</i>	0,59	5,42E-04	0,47	9,11E-03
ENSG00000163900	<i>TMEM41A</i>	1,14	2,70E-35	0,28	9,12E-03
ENSG00000130234	<i>ACE2</i>	1,18	6,77E-06	0,75	9,14E-03
ENSG00000123374	<i>CDK2</i>	0,48	2,18E-03	0,42	9,28E-03
ENSG00000139998	<i>RAB15</i>	0,64	3,37E-05	0,43	9,73E-03

S7. DE genes between KD1 vs Mock and KD2 vs mock in Hep3B after Inc18q22.2 knockdown. 2063 genes were overlapping between KD1 vs Mock and KD2 vs Mock from which 1724 were in the same direction (this table) and 339 in opposite direction. All genes are significant at FDR<0.01.

Ensembl Gene ID	Official gene name	KD1 vs Mock (Hep3B)		KD2 vs Mock (Hep3B)	
		Log2 Fold Change	FDR	Log2 Fold Change	FDR
ENSG00000189403	<i>HMGB1</i>	-0,26	6,59E-04	-2,28	9,09E-204
ENSG00000118523	<i>CTGF</i>	-1,46	3,05E-94	-2,13	3,43E-194
ENSG00000103257	<i>SLC7A5</i>	-1,03	7,06E-43	-2,14	2,47E-174
ENSG00000137801	<i>THBS1</i>	-1,62	3,66E-96	-1,94	1,51E-136
ENSG00000146670	<i>CDCA5</i>	-0,46	2,85E-08	-2,04	1,96E-133
ENSG00000101255	<i>TRIB3</i>	-0,27	8,91E-03	-1,97	6,28E-91
ENSG00000176619	<i>LMNB2</i>	-0,38	7,59E-05	-1,74	4,41E-83
ENSG00000147403	<i>RPL10</i>	-0,31	5,49E-05	-1,35	1,86E-75
ENSG00000106636	<i>YKT6</i>	-0,68	7,44E-15	-1,61	8,50E-75
ENSG00000181789	<i>COPG</i>	-0,47	4,50E-09	-1,43	3,74E-73
ENSG00000119280	<i>C1ORF198</i>	-0,45	5,36E-07	-1,59	4,40E-70
ENSG00000136238	<i>RAC1</i>	-0,20	3,48E-03	-1,13	8,66E-69
ENSG00000124766	<i>SOX4</i>	-0,70	3,82E-23	-1,22	6,24E-68
ENSG00000103591	<i>AAGAB</i>	-0,33	9,74E-04	-1,68	1,33E-66
ENSG00000125817	<i>CENPB</i>	-0,75	1,12E-10	-2,03	9,04E-64
ENSG00000171314	<i>PGAM1</i>	-1,22	1,59E-26	-1,96	9,40E-64
ENSG00000166900	<i>STX3</i>	-0,73	3,16E-18	-1,41	1,12E-63
ENSG00000108861	<i>DUSP3</i>	-0,30	1,00E-04	-1,24	3,03E-63
ENSG00000116584	<i>ARHGEF2</i>	-1,39	6,24E-44	-1,68	3,26E-63
ENSG00000101346	<i>POFUT1</i>	-0,86	1,08E-20	-1,53	6,90E-62
ENSG00000011009	<i>LYPLA2</i>	-1,44	1,06E-36	-1,89	1,16E-60
ENSG00000171552	<i>BCL2L1</i>	-0,41	9,72E-09	-1,12	6,42E-59
ENSG00000070614	<i>NDST1</i>	-0,47	2,05E-11	-1,10	2,71E-58
ENSG00000065060	<i>UHRF1BP1</i>	-0,42	4,28E-05	-1,57	2,77E-57
ENSG00000148411	<i>NACC2</i>	-0,35	5,36E-04	-1,54	3,84E-54
ENSG00000097007	<i>ABL1</i>	-0,29	2,32E-03	-1,38	8,66E-54
ENSG00000206053	<i>HN1L</i>	-1,09	1,29E-48	-1,14	1,42E-53

ENSG00000175215	<i>CTDSP2</i>	-0,42	9,57E-07	-1,27	2,25E-52
ENSG00000205208	<i>C4ORF46</i>	-0,63	2,13E-05	-2,38	1,69E-51
ENSG00000147526	<i>TACC1</i>	-0,85	3,66E-21	-1,35	1,42E-50
ENSG00000049449	<i>RCN1</i>	-0,84	7,61E-22	-1,29	4,85E-49
ENSG00000167470	<i>MIDN</i>	-1,45	8,64E-36	-1,70	1,27E-48
ENSG00000171004	<i>HS6ST2</i>	-0,35	1,02E-03	-1,44	5,19E-47
ENSG00000162889	<i>MAPKAPK2</i>	-1,19	2,63E-33	-1,42	1,30E-46
ENSG00000090889	<i>KIF4A</i>	-0,79	2,09E-16	-1,37	1,30E-46
ENSG00000167658	<i>EEF2</i>	-0,33	3,82E-08	-0,83	1,50E-46
ENSG00000147869	<i>CER1</i>	-2,51	3,55E-46	-2,46	1,84E-46
ENSG00000169710	<i>FASN</i>	-0,63	4,59E-15	-1,11	4,13E-45
ENSG00000166851	<i>PLK1</i>	-0,42	4,02E-07	-1,10	2,65E-43
ENSG00000147324	<i>MFHAS1</i>	-1,07	4,03E-20	-1,61	1,39E-42
ENSG00000064666	<i>CNN2</i>	-0,30	1,06E-03	-1,16	1,07E-41
ENSG00000077232	<i>DNAJC10</i>	-0,32	4,23E-04	-1,13	4,65E-41
ENSG00000003989	<i>SLC7A2</i>	-1,03	6,32E-24	-1,36	5,10E-41
ENSG00000198826	<i>ARHGAP11A</i>	-0,46	1,03E-05	-1,36	1,30E-40
ENSG00000110395	<i>CBL</i>	-0,49	1,54E-05	-1,47	1,38E-40
ENSG00000185624	<i>P4HB</i>	-0,79	5,28E-29	-0,93	2,07E-39
ENSG00000183098	<i>GPC6</i>	-0,59	1,86E-10	-1,21	2,27E-39
ENSG00000099942	<i>CRKL</i>	-0,78	6,59E-22	-1,05	1,30E-38
ENSG00000138829	<i>FBN2</i>	-1,80	1,09E-43	-1,61	3,29E-37
ENSG00000175826	<i>DULLARD</i>	-1,69	1,31E-29	-1,90	5,08E-37
ENSG00000173706	<i>HEG1</i>	-0,68	9,05E-15	-1,10	8,30E-37
ENSG00000142178	<i>SIK1</i>	-1,15	1,73E-30	-1,25	2,21E-36
ENSG00000143384	<i>MCL1</i>	-1,50	1,35E-98	-0,89	3,62E-36
ENSG00000119383	<i>PPP2R4</i>	-0,94	8,94E-26	-1,12	5,21E-36
ENSG00000163545	<i>NUAK2</i>	-1,62	2,13E-52	-1,30	6,91E-36
ENSG00000135763	<i>URB2</i>	-0,72	4,39E-12	-1,28	1,46E-35
ENSG00000120802	<i>TMPO</i>	-0,90	9,97E-31	-0,95	8,64E-35
ENSG00000182963	<i>GJC1</i>	-0,63	2,75E-12	-1,09	1,91E-34
ENSG00000186716	<i>BCR</i>	-0,30	1,51E-03	-1,09	2,71E-34

ENSG00000160208	<i>RRP1B</i>	-0,52	6,25E-09	-1,06	5,08E-34
ENSG00000035928	<i>RFC1</i>	-0,60	8,25E-15	-0,93	5,81E-34
ENSG00000204516	<i>MICB</i>	-1,08	4,53E-16	-1,61	8,28E-34
ENSG00000164880	<i>INTS1</i>	-0,32	6,65E-05	-0,90	6,32E-33
ENSG00000100364	<i>C22ORF9</i>	-0,36	1,27E-03	-1,27	5,85E-32
ENSG00000175727	<i>MLXIP</i>	-0,41	2,91E-04	-1,29	1,72E-31
ENSG00000155096	<i>AZIN1</i>	-0,38	1,25E-06	-0,88	7,21E-31
ENSG00000147677	<i>EIF3H</i>	-0,35	5,01E-06	-0,86	7,40E-31
ENSG00000100889	<i>PCK2</i>	-0,80	2,34E-10	-1,43	5,65E-30
ENSG00000025772	<i>TOMM34</i>	-1,66	2,20E-38	-1,41	1,07E-29
ENSG00000143515	<i>ATP8B2</i>	-0,26	2,31E-03	-0,91	1,25E-29
ENSG00000115561	<i>RNF103</i>	-0,33	5,64E-04	-1,03	1,29E-29
ENSG00000068078	<i>FGFR3</i>	-0,32	2,85E-04	-0,94	2,44E-29
ENSG00000124641	<i>MED20</i>	-0,60	4,33E-07	-1,32	9,82E-29
ENSG00000187514	<i>LOC441454</i>	-0,61	3,83E-11	-1,00	1,94E-28
ENSG00000139514	<i>SLC7A1</i>	-1,27	2,52E-39	-1,06	2,57E-28
ENSG00000139269	<i>INHBE</i>	-0,70	1,18E-13	-1,03	4,24E-28
ENSG00000171848	<i>RRM2</i>	-0,37	4,74E-06	-0,85	7,17E-28
ENSG00000130766	<i>SESN2</i>	-1,59	2,88E-39	-1,29	1,36E-27
ENSG00000132463	<i>GRSF1</i>	-0,72	1,14E-20	-0,83	2,68E-27
ENSG00000135269	<i>TES</i>	-0,65	1,70E-19	-0,77	3,57E-27
ENSG00000124226	<i>RNF114</i>	-0,90	1,72E-22	-0,99	4,12E-27
ENSG00000134107	<i>BHLHE40</i>	-0,50	1,71E-06	-1,09	1,31E-26
ENSG00000144677	<i>CTDSPL</i>	-1,47	3,38E-28	-1,39	3,95E-26
ENSG00000088325	<i>TPX2</i>	-0,46	1,44E-12	-0,68	5,68E-26
ENSG00000116016	<i>EPAS1</i>	-0,90	7,37E-30	-0,83	1,13E-25
ENSG00000142453	<i>CARM1</i>	-1,11	3,68E-22	-1,19	1,58E-25
ENSG00000128272	<i>ATF4</i>	-0,46	3,24E-13	-0,64	1,76E-25
ENSG00000149503	<i>INCENP</i>	-0,80	5,15E-18	-0,96	2,15E-25
ENSG00000198561	<i>CTNND1</i>	-0,79	6,66E-31	-0,71	2,96E-25
ENSG00000126003	<i>LOC152845</i>	-1,38	9,44E-52	-0,93	3,64E-25
ENSG00000185900	<i>SGK196</i>	-0,66	2,98E-03	-2,33	4,47E-25

ENSG00000121671	<i>CRY2</i>	-0,72	3,44E-08	-1,34	4,55E-25
ENSG00000137337	<i>MDC1</i>	-0,80	1,27E-21	-0,85	1,76E-24
ENSG00000177302	<i>TOP3A</i>	-0,90	3,20E-19	-1,02	1,79E-24
ENSG00000130741	<i>EIF2S3</i>	-1,36	2,11E-58	-0,85	2,32E-24
ENSG00000132688	<i>NES</i>	-1,12	4,44E-49	-0,76	1,05E-23
ENSG00000136237	<i>RAPGEF5</i>	-0,48	2,09E-06	-0,98	1,67E-23
ENSG00000198853	<i>RUSC2</i>	-1,88	2,58E-52	-1,21	1,93E-23
ENSG00000118579	<i>MED28</i>	-0,62	3,20E-09	-1,02	3,70E-23
ENSG00000170027	<i>YWHAG</i>	-0,33	7,60E-06	-0,69	7,86E-23
ENSG00000173065	<i>C17ORF63</i>	-1,25	7,71E-31	-1,05	1,22E-22
ENSG00000164543	<i>STK17A</i>	-0,99	9,71E-39	-0,74	1,55E-22
ENSG00000189067	<i>LITAF</i>	-1,32	1,89E-28	-1,15	1,56E-22
ENSG00000205730	<i>ITPRIPL2</i>	-1,29	7,08E-13	-1,77	3,13E-22
ENSG00000133119	<i>RFC3</i>	-0,30	9,71E-03	-1,04	6,22E-22
ENSG00000113739	<i>STC2</i>	-0,94	1,37E-13	-1,21	9,58E-22
ENSG00000163347	<i>CLDN1</i>	-0,19	1,35E-03	-0,52	9,73E-22
ENSG00000058262	<i>SEC61A1</i>	-0,58	1,96E-19	-0,61	1,48E-21
ENSG00000113387	<i>SUB1</i>	-0,33	3,23E-06	-0,65	1,55E-21
ENSG00000146433	<i>TMEM181</i>	-0,28	2,18E-03	-0,80	1,63E-21
ENSG00000141458	<i>NPC1</i>	-0,28	7,14E-03	-0,92	2,15E-21
ENSG00000197081	<i>IGF2R</i>	-0,99	1,84E-48	-0,64	3,40E-21
ENSG00000093000	<i>NUP50</i>	-0,22	6,18E-03	-0,70	3,95E-21
ENSG00000146729	<i>GBAS</i>	-0,75	5,64E-10	-1,13	5,22E-21
ENSG00000100422	<i>CERK</i>	-1,31	4,40E-35	-0,99	5,68E-21
ENSG00000168395	<i>ING5</i>	-0,49	2,42E-04	-1,22	6,19E-21
ENSG00000141568	<i>FOXK2</i>	-0,74	4,12E-14	-0,91	1,27E-20
ENSG00000173207	<i>CKS1B</i>	-0,52	3,39E-10	-0,76	1,48E-20
ENSG00000134970	<i>TICAM2</i>	-0,72	2,91E-14	-0,87	3,24E-20
ENSG00000205336	<i>GPR56</i>	-1,00	1,57E-11	-1,37	3,34E-20
ENSG00000010818	<i>HIVEP2</i>	-1,26	3,10E-19	-1,28	4,14E-20
ENSG00000087266	<i>SH3BP2</i>	-0,57	1,19E-04	-1,34	4,59E-20
ENSG00000160867	<i>FGFR4</i>	-1,37	1,05E-82	-0,65	6,04E-20

ENSG00000163539	<i>CLASP2</i>	-0,62	2,24E-08	-0,98	3,38E-19
ENSG00000005339	<i>CREBBP</i>	-0,60	3,78E-15	-0,67	6,64E-19
ENSG00000175216	<i>CKAP5</i>	-0,58	2,56E-16	-0,63	7,54E-19
ENSG00000108557	<i>RAI1</i>	-0,60	1,09E-07	-0,98	9,49E-19
ENSG00000114554	<i>PLXNA1</i>	-1,22	8,88E-52	-0,71	1,05E-18
ENSG00000197312	<i>DDI2</i>	-0,39	3,13E-04	-0,93	1,11E-18
ENSG00000164287	<i>CDC20B</i>	-0,66	1,46E-05	-1,34	1,34E-18
ENSG00000134086	<i>VHL</i>	-0,56	6,76E-10	-0,79	1,66E-18
ENSG00000142949	<i>PTPRF</i>	-0,74	7,71E-27	-0,61	1,72E-18
ENSG00000101057	<i>MYBL2</i>	-0,40	2,04E-07	-0,65	1,88E-18
ENSG00000165689	<i>LOC646891</i>	-0,37	1,45E-04	-0,83	2,17E-18
ENSG00000158985	<i>CDC42SE2</i>	-0,53	2,37E-05	-1,07	2,18E-18
ENSG00000107249	<i>GLIS3</i>	-1,43	2,15E-36	-0,96	2,53E-18
ENSG00000183943	<i>PRKX</i>	-0,54	2,12E-04	-1,25	3,01E-18
ENSG00000167491	<i>GATAD2A</i>	-1,10	7,10E-27	-0,88	3,84E-18
ENSG00000100567	<i>PSMA3</i>	-0,47	1,25E-05	-0,92	4,43E-18
ENSG00000048052	<i>HDAC9</i>	-1,72	2,21E-27	-1,33	5,32E-18
ENSG00000148297	<i>MED22</i>	-0,56	5,66E-07	-0,94	6,16E-18
ENSG00000136504	<i>LOC648927</i>	-0,33	1,48E-03	-0,84	6,59E-18
ENSG00000148773	<i>MKI67</i>	-0,62	1,83E-18	-0,61	1,10E-17
ENSG00000170776	<i>AKAP13</i>	-0,59	4,90E-11	-0,75	1,63E-17
ENSG00000133657	<i>ATP13A3</i>	-0,22	8,96E-03	-0,66	1,80E-17
ENSG00000186174	<i>BCL9L</i>	-1,10	5,34E-23	-0,94	2,35E-17
ENSG00000080603	<i>SRCAP</i>	-0,22	4,36E-03	-0,60	2,41E-17
ENSG00000142230	<i>SAE1</i>	-0,35	3,54E-05	-0,68	2,63E-17
ENSG00000175224	<i>KIAA0652</i>	-1,03	4,57E-25	-0,84	4,32E-17
ENSG00000084463	<i>WBP11</i>	-0,39	1,14E-06	-0,66	8,58E-17
ENSG00000131374	<i>TBC1D5</i>	-1,31	5,59E-34	-0,88	9,75E-17
ENSG00000015520	<i>NPC1L1</i>	-0,52	8,41E-06	-0,94	1,01E-16
ENSG00000057252	<i>SOAT1</i>	-0,32	2,20E-04	-0,69	1,02E-16
ENSG00000094916	<i>CBX5</i>	-0,48	8,07E-10	-0,63	1,07E-16
ENSG00000138018	<i>EPT1</i>	-0,52	2,06E-08	-0,75	1,08E-16

ENSG00000166025	<i>AMOTL1</i>	-1,28	2,13E-27	-0,96	1,15E-16
ENSG00000160294	<i>MCM3AP</i>	-0,30	1,20E-03	-0,71	1,37E-16
ENSG00000113273	<i>ARSB</i>	-0,42	7,14E-03	-1,23	1,58E-16
ENSG00000145431	<i>PDGFC</i>	-0,82	3,04E-16	-0,82	2,07E-16
ENSG00000135476	<i>ESPL1</i>	-0,31	7,05E-04	-0,72	3,31E-16
ENSG00000183723	<i>CMTM4</i>	-0,52	9,77E-07	-0,84	8,03E-16
ENSG00000116017	<i>ARID3A</i>	-0,86	8,41E-27	-0,65	8,90E-16
ENSG00000185215	<i>TNFAIP2</i>	-0,86	1,09E-13	-0,93	9,92E-16
ENSG00000175130	<i>MARCKSL1</i>	-0,54	3,84E-12	-0,62	1,08E-15
ENSG00000109320	<i>NFKB1</i>	-0,62	2,32E-09	-0,82	1,11E-15
ENSG00000243156	<i>MICAL3</i>	-0,36	1,54E-04	-0,74	1,41E-15
ENSG00000013619	<i>MAMLD1</i>	-0,53	5,04E-03	-1,47	1,46E-15
ENSG00000153071	<i>DAB2</i>	-1,20	6,65E-36	-0,76	1,74E-15
ENSG00000197408	<i>CYP2B6</i>	-2,00	1,18E-56	-0,96	1,95E-15
ENSG00000259974	<i>LNC00261</i>	-0,45	2,55E-08	-0,63	2,32E-15
ENSG00000130559	<i>CAMSAP1</i>	-0,71	4,85E-08	-1,02	2,36E-15
ENSG00000196576	<i>PLXNB2</i>	-0,79	3,03E-29	-0,56	3,78E-15
ENSG00000166123	<i>GPT2</i>	-0,77	5,99E-09	-1,02	5,07E-15
ENSG00000008282	<i>SYPL1</i>	-0,95	3,23E-23	-0,74	6,02E-15
ENSG00000267427	/	-0,79	2,86E-11	-0,92	6,08E-15
ENSG00000129473	<i>BCL2L2</i>	-0,65	7,61E-08	-0,92	1,06E-14
ENSG00000179195	<i>ZNF664</i>	-0,71	7,51E-17	-0,65	1,29E-14
ENSG00000125398	<i>SOX9</i>	-1,71	4,92E-91	-0,63	1,58E-14
ENSG00000162512	<i>SDC3</i>	-0,40	2,67E-03	-0,98	1,61E-14
ENSG00000132182	<i>NUP210</i>	-0,75	7,44E-21	-0,62	1,86E-14
ENSG00000101384	<i>JAG1</i>	-1,41	1,52E-95	-0,53	2,00E-14
ENSG00000204138	<i>PHACTR4</i>	-0,63	3,91E-13	-0,66	2,36E-14
ENSG00000111371	<i>SLC38A1</i>	-0,63	1,09E-16	-0,58	2,65E-14
ENSG00000057019	<i>DCBLD2</i>	-0,89	2,06E-22	-0,69	3,11E-14
ENSG00000106804	<i>C5</i>	-0,30	1,34E-03	-0,66	4,08E-14
ENSG00000167721	<i>TSR1</i>	-0,78	1,48E-17	-0,69	4,32E-14
ENSG00000112242	<i>E2F3</i>	-0,74	1,16E-18	-0,63	4,43E-14

ENSG00000133195	<i>SLC39A11</i>	-0,77	3,52E-07	-1,12	4,45E-14
ENSG00000168488	<i>ATXN2L</i>	-0,27	1,13E-03	-0,59	4,62E-14
ENSG00000213160	<i>KLHL23</i>	-1,03	1,84E-28	-0,70	5,04E-14
ENSG00000128595	<i>CALU</i>	-0,42	1,00E-09	-0,51	6,49E-14
ENSG00000141002	<i>TCF25</i>	-0,64	1,84E-09	-0,78	8,21E-14
ENSG00000162290	<i>DCP1A</i>	-0,44	4,30E-05	-0,77	8,44E-14
ENSG00000128342	<i>LIF</i>	-2,25	5,80E-30	-1,40	8,51E-14
ENSG00000129654	<i>FOXJ1</i>	-1,31	1,12E-07	-1,85	8,51E-14
ENSG00000104388	<i>RAB2A</i>	-0,34	9,30E-04	-0,74	9,08E-14
ENSG00000133275	<i>CSNK1G2</i>	-0,56	1,09E-06	-0,84	9,94E-14
ENSG00000071282	<i>LMCD1</i>	-0,36	5,76E-03	-0,92	1,01E-13
ENSG00000204304	<i>PBX2</i>	-1,34	8,46E-45	-0,70	1,13E-13
ENSG00000170044	<i>ZPLD1</i>	-0,57	6,42E-04	-1,20	1,17E-13
ENSG00000116133	<i>DHCR24</i>	-0,42	5,41E-07	-0,61	1,21E-13
ENSG00000140443	<i>IGF1R</i>	-0,74	1,12E-13	-0,73	1,38E-13
ENSG00000197724	<i>PHF2</i>	-0,65	5,00E-09	-0,81	1,58E-13
ENSG00000164323	<i>KIAA1430</i>	-1,38	1,82E-30	-0,88	1,77E-13
ENSG00000135845	<i>PIGC</i>	-0,48	1,80E-07	-0,67	1,77E-13
ENSG00000167978	<i>LOC100132779</i>	-0,21	2,10E-03	-0,48	1,79E-13
ENSG00000066468	<i>FGFR2</i>	-1,50	9,04E-25	-1,05	2,52E-13
ENSG00000077235	<i>GTF3C1</i>	-0,39	6,27E-06	-0,62	3,40E-13
ENSG00000106948	<i>AKNA</i>	-0,95	5,84E-06	-1,53	3,40E-13
ENSG00000145555	<i>MYO10</i>	-1,61	2,15E-78	-0,61	3,50E-13
ENSG00000214113	<i>LYRM4</i>	-0,48	2,82E-04	-0,94	3,51E-13
ENSG00000172893	<i>DHCR7</i>	-0,47	9,56E-06	-0,76	3,59E-13
ENSG00000198034	<i>RPS4X</i>	-0,83	3,15E-29	-0,54	4,61E-13
ENSG00000066117	<i>SMARCD1</i>	-0,31	1,41E-03	-0,67	6,41E-13
ENSG00000188846	<i>RPL14</i>	-0,82	2,35E-26	-0,56	7,69E-13
ENSG00000165323	<i>FAT3</i>	-2,31	5,10E-54	-1,00	8,52E-13
ENSG00000121152	<i>NCAPH</i>	-0,31	2,03E-03	-0,68	1,03E-12
ENSG00000171490	<i>RSL1D1</i>	-0,72	3,24E-21	-0,55	1,12E-12
ENSG00000135074	<i>ADAM19</i>	-1,08	4,75E-15	-0,97	1,18E-12

ENSG00000116132	<i>PRRX1</i>	-1,06	5,07E-11	-1,14	1,46E-12
ENSG00000137818	<i>RPLP1</i>	-0,89	7,63E-26	-0,61	1,50E-12
ENSG00000065328	<i>MCM10</i>	-0,65	3,00E-10	-0,72	1,50E-12
ENSG00000130702	<i>LAMA5</i>	-0,42	8,81E-07	-0,59	1,58E-12
ENSG00000164292	<i>RHOBTB3</i>	-0,47	1,01E-05	-0,74	1,61E-12
ENSG00000130382	<i>MLLT1</i>	-0,76	8,38E-07	-1,08	1,78E-12
ENSG00000169242	<i>EFNA1</i>	-0,83	7,16E-12	-0,85	2,01E-12
ENSG00000137166	<i>FOXP4</i>	-0,94	1,54E-22	-0,67	2,14E-12
ENSG00000182492	<i>BGN</i>	-1,39	9,97E-10	-1,59	2,64E-12
ENSG00000110048	<i>OSBP</i>	-0,37	7,60E-05	-0,64	2,79E-12
ENSG00000064726	<i>BTBD1</i>	-0,71	4,23E-15	-0,63	2,91E-12
ENSG00000176142	<i>TMEM39A</i>	-0,34	5,06E-03	-0,79	2,92E-12
ENSG00000163754	<i>GYG1</i>	-0,41	2,63E-03	-0,90	3,66E-12
ENSG00000064999	<i>ANKS1A</i>	-0,84	2,74E-17	-0,68	4,24E-12
ENSG00000173020	<i>ADRBK1</i>	-0,36	1,80E-04	-0,64	4,48E-12
ENSG00000257923	<i>CUX1</i>	-0,45	1,34E-06	-0,63	4,53E-12
ENSG00000119900	<i>OGFRL1</i>	-1,34	3,70E-16	-1,12	4,86E-12
ENSG00000163697	<i>APBB2</i>	-0,45	8,95E-04	-0,89	5,11E-12
ENSG00000170348	<i>TMED10</i>	-0,84	4,31E-27	-0,55	5,77E-12
ENSG00000033050	<i>ABCF2</i>	-0,45	4,79E-06	-0,66	6,26E-12
ENSG00000171223	<i>JUNB</i>	-0,56	6,11E-05	-0,93	6,38E-12
ENSG00000072803	<i>FBXW11</i>	-0,44	1,72E-07	-0,57	6,73E-12
ENSG00000197771	<i>C10ORF119</i>	-0,65	2,48E-13	-0,61	7,09E-12
ENSG00000120437	<i>ACAT2</i>	-0,70	1,34E-10	-0,75	7,44E-12
ENSG00000134802	<i>SLC43A3</i>	-0,31	7,15E-04	-0,60	7,61E-12
ENSG00000198830	<i>HMGN2</i>	-0,31	4,34E-04	-0,57	7,81E-12
ENSG00000104738	<i>MCM4</i>	-0,32	1,66E-05	-0,49	8,37E-12
ENSG00000135632	<i>SMYD5</i>	-1,00	5,35E-18	-0,78	9,08E-12
ENSG00000012660	<i>ELOVL5</i>	-0,44	6,91E-09	-0,51	1,09E-11
ENSG00000064313	<i>TAF2</i>	-0,28	5,24E-03	-0,64	1,28E-11
ENSG00000074935	<i>TUBE1</i>	-0,91	3,91E-08	-1,11	1,29E-11
ENSG00000173281	<i>PPP1R3B</i>	-0,63	7,43E-07	-0,84	1,30E-11

ENSG00000120942	<i>UBIAD1</i>	-0,43	1,36E-03	-0,87	1,49E-11
ENSG00000140534	<i>C15ORF42</i>	-0,34	4,20E-03	-0,76	1,53E-11
ENSG00000143815	<i>LBR</i>	-0,22	5,28E-03	-0,51	1,58E-11
ENSG00000163083	<i>INHBB</i>	-2,19	7,48E-52	-0,93	1,63E-11
ENSG00000172340	<i>LOC283398</i>	-0,39	3,17E-05	-0,62	1,75E-11
ENSG00000131149	<i>KIAA0182</i>	-1,17	1,38E-41	-0,58	2,00E-11
ENSG00000163735	<i>CXCL5</i>	-3,69	1,16E-68	-1,39	2,17E-11
ENSG00000079432	<i>CIC</i>	-0,81	1,16E-15	-0,67	2,34E-11
ENSG00000065150	<i>IPO5</i>	-0,76	3,25E-24	-0,51	2,47E-11
ENSG00000103932	<i>RPAP1</i>	-0,35	3,09E-04	-0,63	2,65E-11
ENSG00000181163	<i>LOC100131044</i>	-0,40	3,53E-08	-0,49	2,80E-11
ENSG00000186185	<i>KIF18B</i>	-0,32	3,27E-03	-0,68	3,11E-11
ENSG00000170312	<i>CDK1</i>	-0,25	2,62E-03	-0,52	4,38E-11
ENSG00000145041	<i>VPRBP</i>	-0,49	6,99E-06	-0,71	4,87E-11
ENSG00000135966	<i>TGFBRAP1</i>	-0,92	2,24E-12	-0,85	6,40E-11
ENSG00000146457	<i>WTAP</i>	-0,34	6,52E-04	-0,62	8,24E-11
ENSG00000152291	<i>TGOLN2</i>	-1,09	3,83E-49	-0,49	8,29E-11
ENSG00000150938	<i>CRIM1</i>	-0,49	4,49E-10	-0,51	8,60E-11
ENSG00000077684	<i>PHF17</i>	-0,38	3,93E-05	-0,58	9,61E-11
ENSG00000070669	<i>ASNS</i>	-1,00	2,41E-23	-0,65	9,83E-11
ENSG00000101544	<i>ADNP2</i>	-0,52	1,94E-04	-0,87	1,05E-10
ENSG00000028528	<i>SNX1</i>	-0,46	1,01E-06	-0,60	1,12E-10
ENSG00000136908	<i>DPM2</i>	-0,71	7,14E-08	-0,85	1,12E-10
ENSG00000109084	<i>TMEM97</i>	-0,30	3,28E-04	-0,51	1,18E-10
ENSG00000120254	<i>MTHFD1L</i>	-1,05	1,06E-22	-0,69	1,47E-10
ENSG00000112029	<i>FBXO5</i>	-0,63	7,50E-09	-0,70	1,58E-10
ENSG00000130816	<i>DNMT1</i>	-0,30	2,67E-05	-0,44	1,86E-10
ENSG00000187605	<i>TET3</i>	-0,62	1,62E-07	-0,74	2,02E-10
ENSG00000139722	<i>VPS37B</i>	-0,74	6,14E-06	-1,03	2,10E-10
ENSG00000114850	<i>SSR3</i>	-0,61	1,72E-15	-0,50	2,11E-10
ENSG00000260032	<i>LINC00657</i>	-0,31	1,49E-04	-0,50	2,28E-10
ENSG00000147459	<i>DOCK5</i>	-0,60	1,20E-07	-0,71	2,46E-10

ENSG00000003137	<i>CYP26B1</i>	-0,61	5,11E-04	-1,08	2,56E-10
ENSG00000185000	<i>DGAT1</i>	-0,47	8,92E-03	-1,07	2,59E-10
ENSG00000168906	<i>MAT2A</i>	-0,25	1,14E-03	-0,45	3,34E-10
ENSG00000101224	<i>CDC25B</i>	-0,39	5,95E-04	-0,69	3,46E-10
ENSG00000165238	<i>WNK2</i>	-0,82	2,48E-10	-0,81	3,46E-10
ENSG00000164211	<i>STARD4</i>	-0,34	7,58E-03	-0,75	3,51E-10
ENSG00000141738	<i>GRB7</i>	-0,66	3,49E-05	-0,99	3,67E-10
ENSG00000104885	<i>DOT1L</i>	-0,55	1,08E-06	-0,70	4,01E-10
ENSG00000092847	<i>EIF2C1</i>	-0,30	8,28E-03	-0,68	4,32E-10
ENSG00000160113	<i>NR2F6</i>	-0,90	3,33E-12	-0,81	4,65E-10
ENSG00000134758	<i>RNF138</i>	-0,66	4,57E-05	-0,99	4,99E-10
ENSG00000007202	<i>KIAA0100</i>	-0,42	1,03E-05	-0,58	5,37E-10
ENSG00000058804	<i>TMEM48</i>	-0,77	1,11E-18	-0,54	5,52E-10
ENSG00000116962	<i>NID1</i>	-0,77	6,17E-24	-0,48	7,43E-10
ENSG00000077514	<i>POLD3</i>	-0,81	4,10E-08	-0,90	8,13E-10
ENSG00000213676	<i>ATF6B</i>	-0,57	4,50E-08	-0,64	8,43E-10
ENSG00000159840	<i>ZYX</i>	-0,43	2,77E-08	-0,47	9,36E-10
ENSG00000117707	<i>PROX1</i>	-0,41	7,12E-09	-0,44	9,70E-10
ENSG00000132155	<i>RAF1</i>	-0,66	6,73E-15	-0,52	9,84E-10
ENSG00000117505	<i>DR1</i>	-0,80	3,42E-16	-0,60	1,01E-09
ENSG00000107562	<i>CXCL12</i>	-0,42	1,64E-03	-0,77	1,04E-09
ENSG00000160949	<i>NFKBIL2</i>	-0,38	2,73E-03	-0,73	1,06E-09
ENSG00000120438	<i>TCP1</i>	-0,24	2,02E-03	-0,46	1,15E-09
ENSG00000142089	<i>IFITM3</i>	-0,43	1,88E-06	-0,54	1,21E-09
ENSG00000148840	<i>PPRC1</i>	-0,76	3,35E-12	-0,67	1,29E-09
ENSG00000244062	<i>RP11-404G16.2</i>	-1,48	3,52E-07	-1,76	1,33E-09
ENSG00000143569	<i>UBAP2L</i>	-0,38	4,74E-08	-0,42	1,34E-09
ENSG00000075618	<i>FSCN1</i>	-0,47	2,42E-04	-0,76	1,34E-09
ENSG00000113569	<i>NUP155</i>	-0,35	1,83E-05	-0,49	1,44E-09
ENSG00000128965	<i>CHAC1</i>	-0,81	1,80E-07	-0,94	1,47E-09
ENSG00000134897	<i>BIVM</i>	-0,80	2,38E-08	-0,86	1,65E-09
ENSG00000007047	<i>MARK4</i>	-1,31	2,36E-21	-0,82	2,00E-09

ENSG00000100139	<i>MICALL1</i>	-0,64	1,80E-08	-0,68	2,05E-09
ENSG00000128829	<i>EIF2AK4</i>	-1,08	9,31E-21	-0,69	2,07E-09
ENSG00000065809	<i>FAM107B</i>	-1,60	1,94E-75	-0,51	2,15E-09
ENSG00000196756	<i>LOC388796</i>	-0,54	2,43E-06	-0,67	2,23E-09
ENSG00000135069	<i>C8ORF62</i>	-1,04	5,83E-28	-0,58	2,31E-09
ENSG00000164638	<i>LOC100132308</i>	-0,46	1,19E-05	-0,61	2,32E-09
ENSG00000133884	<i>DPF2</i>	-0,31	8,37E-03	-0,65	2,35E-09
ENSG00000159352	<i>PSMD4</i>	-0,26	8,48E-04	-0,45	2,72E-09
ENSG00000155304	<i>HSPA13</i>	-1,06	8,22E-23	-0,65	2,93E-09
ENSG00000157985	<i>AGAP1</i>	-1,04	2,10E-13	-0,83	2,99E-09
ENSG00000126767	<i>ELK1</i>	-0,56	1,50E-03	-1,02	3,10E-09
ENSG00000137309	<i>HMGA1</i>	-1,40	9,82E-67	-0,49	3,29E-09
ENSG00000111845	<i>PAK1IP1</i>	-0,75	7,11E-13	-0,62	3,34E-09
ENSG00000225485	/	-1,33	1,98E-13	-1,06	3,90E-09
ENSG00000066583	<i>ISOC1</i>	-0,36	4,66E-03	-0,72	4,07E-09
ENSG00000072310	<i>SREBF1</i>	-1,25	1,93E-35	-0,59	4,08E-09
ENSG00000094804	<i>CDC6</i>	-0,48	7,39E-10	-0,46	4,31E-09
ENSG00000150768	<i>DLAT</i>	-0,75	4,05E-17	-0,53	4,32E-09
ENSG00000010404	<i>IDS</i>	-0,55	1,06E-03	-0,95	5,84E-09
ENSG00000066654	<i>THUMPD1</i>	-0,70	1,49E-10	-0,64	6,55E-09
ENSG00000112664	<i>NUDT3</i>	-0,45	8,18E-03	-0,93	6,55E-09
ENSG00000134686	<i>PHC2</i>	-0,92	7,71E-21	-0,57	7,47E-09
ENSG00000121481	<i>RNF2</i>	-0,48	5,44E-04	-0,77	8,15E-09
ENSG00000167088	<i>LOC100129492</i>	-0,55	2,81E-08	-0,56	8,86E-09
ENSG00000166887	<i>VPS39</i>	-0,93	3,45E-17	-0,63	8,86E-09
ENSG00000146232	<i>NFKBIE</i>	-0,76	1,10E-05	-0,99	8,89E-09
ENSG00000132142	<i>ACACA</i>	-1,53	3,11E-45	-0,63	9,48E-09
ENSG00000133636	<i>NTS</i>	-0,82	2,63E-28	-0,44	9,70E-09
ENSG00000101752	<i>MIB1</i>	-0,39	5,80E-06	-0,48	1,05E-08
ENSG00000143321	<i>HDGF</i>	-0,31	4,31E-06	-0,38	1,14E-08
ENSG00000101444	<i>AHCY</i>	-1,04	6,15E-41	-0,45	1,63E-08
ENSG00000119285	<i>HEATR1</i>	-0,63	1,53E-12	-0,51	1,67E-08

ENSG00000163435	<i>ELF3</i>	-0,48	4,25E-05	-0,65	1,70E-08
ENSG00000142541	<i>RPL13A</i>	-0,69	5,40E-26	-0,38	1,71E-08
ENSG00000119787	<i>ATL2</i>	-0,43	3,54E-05	-0,58	1,74E-08
ENSG00000070756	<i>PABPC1</i>	-0,78	4,68E-27	-0,42	1,76E-08
ENSG00000157827	<i>FMNL2</i>	-0,63	2,40E-12	-0,51	1,94E-08
ENSG00000091986	<i>CCDC80</i>	-1,98	1,45E-55	-0,68	2,08E-08
ENSG00000164825	<i>DEFB1</i>	-0,71	9,33E-03	-1,49	2,13E-08
ENSG00000211460	<i>TSN</i>	-1,19	5,65E-55	-0,44	2,22E-08
ENSG00000198858	<i>C19ORF22</i>	-0,48	4,25E-06	-0,58	2,42E-08
ENSG00000109685	<i>WHSC1</i>	-0,46	3,48E-09	-0,44	2,42E-08
ENSG00000159128	<i>IFNGR2</i>	-0,65	1,21E-06	-0,74	2,42E-08
ENSG00000146223	<i>RPL7L1</i>	-0,88	7,37E-30	-0,45	2,42E-08
ENSG00000102978	<i>POLR2C</i>	-0,40	7,11E-05	-0,55	2,46E-08
ENSG00000138095	<i>LRPPRC</i>	-0,59	2,37E-15	-0,43	2,53E-08
ENSG00000171456	<i>ASXL1</i>	-0,27	5,13E-04	-0,42	3,02E-08
ENSG00000088038	<i>CNOT3</i>	-0,52	5,18E-05	-0,70	3,40E-08
ENSG00000215021	<i>PHB2</i>	-0,89	3,13E-28	-0,45	3,79E-08
ENSG00000155506	<i>LARP1</i>	-0,35	1,94E-06	-0,40	3,85E-08
ENSG00000112414	<i>GPR126</i>	-1,50	7,75E-87	-0,43	4,08E-08
ENSG00000091127	<i>PUS7</i>	-0,38	6,20E-03	-0,71	4,21E-08
ENSG00000127863	<i>TNFRSF19</i>	-0,93	9,59E-16	-0,63	4,23E-08
ENSG00000128928	<i>IVD</i>	-0,41	6,18E-05	-0,55	4,58E-08
ENSG00000069275	<i>NUCKS1</i>	-0,66	8,83E-23	-0,38	4,59E-08
ENSG00000066651	<i>TRMT11</i>	-0,72	3,37E-07	-0,77	4,82E-08
ENSG00000169813	<i>HNRNPF</i>	-0,65	4,35E-21	-0,39	4,96E-08
ENSG00000196313	<i>POM121</i>	-0,82	2,31E-16	-0,55	5,30E-08
ENSG00000138074	<i>SLC5A6</i>	-0,84	2,08E-14	-0,60	5,30E-08
ENSG00000112715	<i>VEGFA</i>	-0,27	2,71E-03	-0,47	5,32E-08
ENSG00000143514	<i>TP53BP2</i>	-0,23	5,95E-03	-0,42	7,24E-08
ENSG00000140350	<i>ANP32A</i>	-1,00	5,48E-39	-0,42	7,77E-08
ENSG00000028116	<i>VRK2</i>	-0,67	1,82E-06	-0,75	8,30E-08
ENSG00000144354	<i>CDCA7</i>	-0,87	3,64E-16	-0,57	8,34E-08

ENSG00000175061	<i>NCRNA00188</i>	-0,60	5,61E-14	-0,44	8,43E-08
ENSG00000183853	<i>KIRREL</i>	-1,27	1,12E-53	-0,45	9,16E-08
ENSG00000115902	<i>SLC1A4</i>	-0,56	7,63E-07	-0,61	9,16E-08
ENSG00000124789	<i>NUP153</i>	-0,47	8,25E-09	-0,44	9,37E-08
ENSG00000085415	<i>SEH1L</i>	-0,82	8,48E-15	-0,57	9,81E-08
ENSG00000111642	<i>CHD4</i>	-0,50	9,30E-14	-0,37	1,02E-07
ENSG00000174437	<i>ATP2A2</i>	-0,25	5,90E-04	-0,38	1,04E-07
ENSG00000156030	<i>C14ORF43</i>	-0,52	3,59E-06	-0,59	1,11E-07
ENSG00000131043	<i>C20ORF4</i>	-0,65	6,78E-09	-0,60	1,14E-07
ENSG00000102974	<i>CTCF</i>	-0,64	1,54E-10	-0,53	1,20E-07
ENSG00000163739	<i>CXCL1</i>	-1,43	1,40E-17	-0,88	1,24E-07
ENSG00000087916	<i>SLC6A14</i>	-1,64	4,69E-10	-1,39	1,25E-07
ENSG00000131236	<i>CAP1</i>	-0,26	1,37E-03	-0,41	1,29E-07
ENSG00000166860	<i>ZBTB39</i>	-0,71	5,26E-05	-0,92	1,31E-07
ENSG00000125686	<i>MED1</i>	-0,37	1,38E-05	-0,45	1,36E-07
ENSG00000130713	<i>EXOSC2</i>	-0,46	7,87E-05	-0,60	1,44E-07
ENSG00000204619	<i>PPP1R11</i>	-0,44	3,07E-06	-0,49	1,47E-07
ENSG00000118495	<i>PLAGL1</i>	-0,86	5,29E-13	-0,63	1,48E-07
ENSG00000181449	<i>SOX2</i>	-1,11	6,53E-05	-1,46	1,56E-07
ENSG00000063660	<i>GPC1</i>	-0,43	6,26E-04	-0,65	1,59E-07
ENSG00000181830	<i>SLC35C1</i>	-0,71	2,21E-09	-0,63	1,67E-07
ENSG00000144712	<i>CAND2</i>	-0,58	4,76E-03	-1,04	1,68E-07
ENSG00000118058	<i>MLL</i>	-0,96	9,36E-29	-0,46	1,73E-07
ENSG00000119772	<i>DNMT3A</i>	-0,38	1,68E-04	-0,52	1,88E-07
ENSG00000153989	<i>LOC729148</i>	-0,52	1,30E-07	-0,52	1,92E-07
ENSG00000131446	<i>MGAT1</i>	-0,81	2,47E-21	-0,46	2,01E-07
ENSG00000180287	<i>PLD5</i>	-1,63	5,05E-23	-0,84	2,06E-07
ENSG00000126461	<i>SCAF1</i>	-0,52	9,11E-05	-0,68	2,15E-07
ENSG00000196730	<i>DAPK1</i>	-0,83	4,51E-21	-0,47	2,55E-07
ENSG00000145907	<i>G3BP1</i>	-0,59	1,30E-16	-0,38	2,59E-07
ENSG00000170381	<i>SEMA3E</i>	-1,15	8,66E-10	-0,96	2,72E-07
ENSG00000153767	<i>GTF2E1</i>	-0,89	2,60E-11	-0,69	2,73E-07

ENSG00000184640	<i>SEPT9</i>	-0,46	3,98E-12	-0,35	2,77E-07
ENSG00000136888	<i>ATP6V1G1</i>	-1,93	1,67E-85	-0,50	2,79E-07
ENSG00000142534	<i>RPS11</i>	-0,57	4,61E-15	-0,38	2,85E-07
ENSG00000174547	<i>MRPL11</i>	-0,43	2,86E-05	-0,52	2,88E-07
ENSG00000007968	<i>E2F2</i>	-1,42	3,33E-15	-0,91	2,96E-07
ENSG00000006715	<i>VPS41</i>	-0,33	2,06E-03	-0,52	3,01E-07
ENSG00000149532	<i>CPSF7</i>	-0,49	6,26E-09	-0,43	3,16E-07
ENSG00000177410	<i>C20ORF199</i>	-0,95	3,94E-18	-0,57	3,33E-07
ENSG00000137656	<i>BUD13</i>	-0,47	8,81E-03	-0,88	3,49E-07
ENSG00000091317	<i>CMTM6</i>	-0,80	1,55E-15	-0,52	3,57E-07
ENSG00000198142	<i>ANKRD57</i>	-0,47	3,96E-05	-0,57	3,71E-07
ENSG00000151834	<i>GABRA2</i>	-1,06	1,04E-13	-0,73	3,81E-07
ENSG00000163785	<i>RYK</i>	-0,66	1,99E-11	-0,50	3,81E-07
ENSG00000096696	<i>DSP</i>	-0,58	3,30E-17	-0,36	3,91E-07
ENSG00000137331	<i>IER3</i>	-1,54	3,84E-48	-0,55	4,21E-07
ENSG00000077152	<i>UBE2T</i>	-1,09	1,25E-26	-0,52	4,24E-07
ENSG00000077157	<i>PPP1R12B</i>	-0,38	4,42E-04	-0,54	4,45E-07
ENSG00000167460	<i>TPM4</i>	-1,33	6,84E-90	-0,35	4,97E-07
ENSG00000140157	<i>NIPA2</i>	-0,80	9,56E-15	-0,52	5,10E-07
ENSG00000181222	<i>POLR2A</i>	-0,29	3,62E-05	-0,35	5,15E-07
ENSG00000106355	<i>LSM5</i>	-0,52	1,33E-08	-0,46	5,31E-07
ENSG00000099875	<i>MKNK2</i>	-0,70	6,43E-09	-0,61	5,34E-07
ENSG00000197136	<i>PCNXL3</i>	-0,74	3,69E-22	-0,39	5,64E-07
ENSG00000184992	<i>BRI3BP</i>	-0,46	4,64E-07	-0,45	5,67E-07
ENSG00000183291	<i>SEP15</i>	-0,38	4,92E-08	-0,35	5,74E-07
ENSG00000134824	<i>FADS2</i>	-0,81	5,04E-13	-0,57	6,06E-07
ENSG00000135018	<i>UBQLN1</i>	-0,43	2,47E-08	-0,39	6,18E-07
ENSG00000119777	<i>TMEM214</i>	-0,32	4,09E-03	-0,54	6,18E-07
ENSG00000179361	<i>ARID3B</i>	-1,53	2,87E-28	-0,69	6,42E-07
ENSG00000247626	<i>MARS2</i>	-0,56	1,13E-05	-0,63	6,48E-07
ENSG00000108753	<i>HNF1B</i>	-0,59	2,73E-05	-0,70	6,88E-07
ENSG00000228649	<i>AC005682.5</i>	-1,14	3,69E-06	-1,22	7,19E-07

ENSG00000163811	WDR43	-0,76	6,47E-16	-0,47	8,14E-07
ENSG00000012232	EXTL3	-0,45	1,06E-04	-0,56	8,45E-07
ENSG00000221867	MAGEA6	-0,46	4,09E-03	-0,76	9,13E-07
ENSG00000177425	PAWR	-0,65	4,82E-14	-0,43	9,24E-07
ENSG00000133935	C14ORF1	-0,36	1,47E-03	-0,53	9,91E-07
ENSG00000170889	RPS9	-0,63	7,72E-16	-0,39	1,03E-06
ENSG00000019144	PHLDB1	-0,53	6,85E-07	-0,52	1,12E-06
ENSG00000073111	MCM2	-0,30	4,15E-04	-0,40	1,13E-06
ENSG00000138032	PPM1B	-0,44	2,73E-05	-0,51	1,15E-06
ENSG00000082781	ITGB5	-0,43	3,29E-05	-0,50	1,17E-06
ENSG00000144711	IQSEC1	-0,42	5,61E-05	-0,51	1,19E-06
ENSG00000132970	WASF3	-0,85	1,61E-05	-0,95	1,24E-06
ENSG00000084652	TXLNA	-1,03	3,29E-27	-0,47	1,27E-06
ENSG00000136193	SCRN1	-0,37	1,56E-07	-0,35	1,28E-06
ENSG00000090924	PLEKHG2	-0,70	2,96E-10	-0,54	1,31E-06
ENSG00000142192	APP	-0,43	7,85E-13	-0,30	1,33E-06
ENSG00000068912	ERLEC1	-0,71	8,94E-13	-0,49	1,33E-06
ENSG00000169862	CTNND2	-0,36	1,14E-04	-0,44	1,35E-06
ENSG00000108829	LRRC59	-0,48	1,66E-10	-0,37	1,40E-06
ENSG00000132382	MYBBP1A	-1,28	4,15E-52	-0,41	1,44E-06
ENSG00000115568	ZNF142	-0,37	1,80E-03	-0,55	1,47E-06
ENSG00000132388	UBE2G1	-0,35	3,82E-05	-0,41	1,51E-06
ENSG00000169635	HIC2	-1,71	6,82E-61	-0,50	1,54E-06
ENSG00000103005	C16ORF57	-0,73	1,23E-12	-0,50	1,58E-06
ENSG00000128487	CYTSB	-0,74	8,11E-15	-0,46	1,63E-06
ENSG00000164692	COL1A2	-1,47	1,52E-08	-1,24	1,63E-06
ENSG00000124784	RIOK1	-0,54	7,87E-07	-0,52	1,64E-06
ENSG00000174136	RGMB	-0,99	1,20E-07	-0,90	1,77E-06
ENSG00000077782	FGFR1	-0,78	5,88E-07	-0,75	1,77E-06
ENSG00000163479	SSR2	-0,57	3,98E-17	-0,33	1,82E-06
ENSG00000130764	LRRC47	-0,60	2,78E-07	-0,56	1,87E-06
ENSG00000174780	SRP72	-1,40	3,90E-67	-0,40	1,90E-06

ENSG00000142207	<i>URB1</i>	-0,93	1,92E-19	-0,50	1,99E-06
ENSG00000163930	<i>BAP1</i>	-0,65	2,96E-12	-0,45	2,06E-06
ENSG00000156970	<i>BUB1B</i>	-0,49	2,76E-10	-0,38	2,11E-06
ENSG00000120800	<i>LOC653877</i>	-0,58	1,03E-09	-0,46	2,16E-06
ENSG00000108506	<i>INTS2</i>	-0,49	1,75E-04	-0,61	2,23E-06
ENSG00000234741	<i>GAS5</i>	-0,95	1,04E-33	-0,38	2,41E-06
ENSG00000162613	<i>FUBP1</i>	-0,50	3,34E-08	-0,43	2,44E-06
ENSG00000100632	<i>ERH</i>	-0,84	6,61E-12	-0,59	2,46E-06
ENSG00000187741	<i>FANCA</i>	-0,46	3,49E-03	-0,72	2,56E-06
ENSG00000108433	<i>GOSR2</i>	-0,58	2,20E-05	-0,63	2,66E-06
ENSG00000229314	<i>ORM1</i>	-1,55	2,06E-35	-0,60	2,66E-06
ENSG00000110104	<i>CCDC86</i>	-0,70	2,81E-08	-0,59	2,66E-06
ENSG00000144524	<i>COPS7B</i>	-0,39	3,22E-04	-0,50	2,85E-06
ENSG00000198952	<i>SMG5</i>	-1,34	2,46E-56	-0,41	2,88E-06
ENSG00000140262	<i>TCF12</i>	-0,52	8,34E-08	-0,46	2,91E-06
ENSG00000189362	<i>TMEM194B</i>	-1,04	6,08E-15	-0,63	3,00E-06
ENSG00000102606	<i>ARHGEF7</i>	-0,57	9,14E-09	-0,47	3,00E-06
ENSG00000136997	<i>MYC</i>	-0,41	3,21E-04	-0,52	3,02E-06
ENSG00000099995	<i>SF3A1</i>	-0,42	1,13E-06	-0,40	3,15E-06
ENSG00000197329	<i>PELI1</i>	-0,92	8,13E-22	-0,46	3,16E-06
ENSG00000141027	<i>NCOR1</i>	-0,31	1,12E-04	-0,37	3,21E-06
ENSG00000035499	<i>DEPDC1B</i>	-0,28	8,61E-03	-0,46	3,40E-06
ENSG00000146858	<i>ZC3HAV1L</i>	-1,03	2,53E-09	-0,81	3,46E-06
ENSG00000168175	<i>MAPK1IP1L</i>	-0,29	2,76E-03	-0,43	3,50E-06
ENSG00000129195	<i>FAM64A</i>	-0,41	5,24E-04	-0,54	3,55E-06
ENSG00000165891	<i>E2F7</i>	-0,60	1,14E-05	-0,63	3,62E-06
ENSG00000185201	<i>IFITM2</i>	-0,80	1,36E-03	-1,14	3,64E-06
ENSG00000107957	<i>SH3PXD2A</i>	-1,95	1,43E-61	-0,54	3,65E-06
ENSG00000064309	<i>CDON</i>	-0,73	4,40E-06	-0,73	3,75E-06
ENSG00000102225	<i>CDK16</i>	-0,67	8,39E-10	-0,51	3,82E-06
ENSG00000099194	<i>SCD</i>	-0,64	2,71E-04	-0,80	3,99E-06
ENSG00000147874	<i>HAUS6</i>	-0,50	9,67E-06	-0,52	4,11E-06

ENSG00000177479	<i>ARIH2</i>	-0,35	4,34E-04	-0,44	4,14E-06
ENSG00000145386	<i>CCNA2</i>	-0,66	2,98E-16	-0,38	4,15E-06
ENSG00000171206	<i>TRIM8</i>	-0,51	2,12E-04	-0,62	4,26E-06
ENSG00000153879	<i>CEBPG</i>	-0,67	4,75E-14	-0,42	4,43E-06
ENSG00000175376	<i>EIF1AD</i>	-0,78	4,52E-12	-0,52	4,48E-06
ENSG00000123268	<i>ATF1</i>	-0,62	3,13E-06	-0,61	4,57E-06
ENSG00000196230	<i>LOC442308</i>	-0,74	7,17E-28	-0,33	4,64E-06
ENSG00000172534	<i>HCFC1</i>	-0,55	2,15E-12	-0,37	4,78E-06
ENSG00000038382	<i>TRIO</i>	-0,65	7,16E-17	-0,37	4,85E-06
ENSG00000160818	<i>GPATCH4</i>	-1,29	1,99E-36	-0,48	4,85E-06
ENSG00000134057	<i>CCNB1</i>	-0,55	4,25E-13	-0,35	4,93E-06
ENSG00000166181	<i>API5</i>	-0,51	1,64E-09	-0,39	5,08E-06
ENSG00000135316	<i>SYNCRIP</i>	-0,42	2,82E-07	-0,38	5,10E-06
ENSG00000111412	<i>C12ORF49</i>	-0,54	3,35E-05	-0,60	5,16E-06
ENSG00000196141	<i>SPATS2L</i>	-0,40	8,24E-07	-0,37	5,31E-06
ENSG00000121964	<i>GTDC1</i>	-0,73	4,61E-04	-0,94	5,43E-06
ENSG00000165424	<i>ZCCHC24</i>	-0,74	4,52E-04	-0,94	5,59E-06
ENSG00000164933	<i>SLC25A32</i>	-0,44	4,17E-04	-0,55	5,78E-06
ENSG00000143126	<i>CELSR2</i>	-0,50	2,03E-03	-0,72	6,02E-06
ENSG00000179051	<i>RCC2</i>	-0,53	6,09E-10	-0,39	6,10E-06
ENSG00000087074	<i>PPP1R15A</i>	-1,19	3,03E-26	-0,51	6,14E-06
ENSG00000102763	<i>KIAA0564</i>	-0,55	1,29E-05	-0,57	6,46E-06
ENSG00000174371	<i>EXO1</i>	-0,42	2,76E-04	-0,51	6,77E-06
ENSG00000134308	<i>YWHAQ</i>	-0,37	1,75E-07	-0,33	6,81E-06
ENSG00000175898	<i>S1PR2</i>	-0,97	1,13E-03	-1,32	7,32E-06
ENSG00000196367	<i>TRRAP</i>	-0,75	5,23E-17	-0,42	7,38E-06
ENSG00000144840	<i>RABL3</i>	-0,56	1,89E-03	-0,79	7,44E-06
ENSG00000166197	<i>NOLC1</i>	-1,85	2,91E-99	-0,40	7,55E-06
ENSG00000140988	<i>RPS2</i>	-0,67	1,94E-24	-0,31	7,83E-06
ENSG00000167635	<i>ZNF146</i>	-1,92	4,43E-90	-0,43	8,15E-06
ENSG00000144713	<i>RPL32</i>	-0,50	7,34E-12	-0,34	8,15E-06
ENSG00000132359	<i>RAP1GAP2</i>	-0,83	4,42E-05	-0,91	8,30E-06

ENSG00000135679	<i>MDM2</i>	-0,69	7,60E-09	-0,54	8,51E-06
ENSG00000082898	<i>XPO1</i>	-0,37	1,02E-06	-0,34	8,74E-06
ENSG00000121644	<i>PPPDE1</i>	-1,52	1,05E-49	-0,46	8,83E-06
ENSG00000164815	<i>ORC5L</i>	-0,49	2,46E-04	-0,58	8,90E-06
ENSG00000197498	<i>RPF2</i>	-0,36	4,65E-03	-0,55	9,30E-06
ENSG00000196954	<i>CASP4</i>	-1,00	1,14E-22	-0,46	9,91E-06
ENSG00000167695	<i>FAM57A</i>	-0,77	1,76E-09	-0,57	1,02E-05
ENSG00000150630	<i>VEGFC</i>	-0,78	1,50E-03	-1,07	1,05E-05
ENSG00000164329	<i>PAPD4</i>	-0,52	1,83E-05	-0,54	1,12E-05
ENSG00000106638	<i>TBL2</i>	-0,50	2,85E-05	-0,52	1,12E-05
ENSG00000148468	<i>FAM171A1</i>	-0,56	1,03E-05	-0,56	1,24E-05
ENSG00000164109	<i>MAD2L1</i>	-0,68	7,01E-15	-0,39	1,31E-05
ENSG00000021645	<i>NRXN3</i>	-0,79	5,84E-13	-0,49	1,31E-05
ENSG00000011304	<i>PTBP1</i>	-0,47	4,88E-08	-0,38	1,34E-05
ENSG00000184675	<i>FAM123B</i>	-1,11	1,83E-09	-0,80	1,34E-05
ENSG00000115718	<i>PROC</i>	-1,05	1,34E-07	-0,87	1,36E-05
ENSG00000143341	<i>HMCN1</i>	-1,44	1,63E-06	-1,31	1,37E-05
ENSG00000231074	<i>HCG18</i>	-1,25	7,24E-39	-0,42	1,39E-05
ENSG00000087269	<i>NOP14</i>	-0,85	1,73E-16	-0,45	1,47E-05
ENSG00000164171	<i>ITGA2</i>	-0,43	3,14E-03	-0,61	1,71E-05
ENSG00000168734	<i>PKIG</i>	-0,93	1,12E-03	-1,21	1,71E-05
ENSG00000181938	<i>GINS3</i>	-0,52	3,42E-03	-0,74	1,71E-05
ENSG00000099381	<i>SETD1A</i>	-0,30	6,11E-03	-0,45	1,73E-05
ENSG00000184226	<i>PCDH9</i>	-1,29	2,85E-19	-0,62	1,76E-05
ENSG00000164924	<i>YWHAZ</i>	-0,50	3,88E-18	-0,26	1,77E-05
ENSG00000063046	<i>EIF4B</i>	-0,55	3,69E-13	-0,34	1,83E-05
ENSG00000244462	<i>RBM12</i>	-0,26	6,09E-03	-0,39	1,83E-05
ENSG00000182272	<i>B4GALNT4</i>	-1,64	3,90E-14	-0,93	1,88E-05
ENSG00000135486	<i>HNRNPA1</i>	-0,64	5,10E-26	-0,27	1,98E-05
ENSG00000218226	<i>TATDN2P2</i>	-0,87	2,18E-04	-1,00	2,03E-05
ENSG00000004975	<i>DVL2</i>	-0,28	5,38E-03	-0,41	2,06E-05
ENSG00000130227	<i>XPO7</i>	-0,82	2,92E-18	-0,41	2,10E-05

ENSG00000085999	<i>RAD54L</i>	-0,70	6,47E-05	-0,74	2,14E-05
ENSG00000047457	<i>CP</i>	-1,77	7,74E-45	-0,54	2,16E-05
ENSG00000161021	<i>MAML1</i>	-0,93	4,72E-13	-0,56	2,23E-05
ENSG00000170779	<i>CDCA4</i>	-0,54	1,81E-04	-0,61	2,25E-05
ENSG00000169504	<i>CLIC4</i>	-0,48	3,67E-06	-0,44	2,27E-05
ENSG00000126226	<i>PCID2</i>	-0,31	6,77E-04	-0,38	2,44E-05
ENSG00000088826	<i>SMOX</i>	-0,98	1,28E-11	-0,62	2,49E-05
ENSG00000162063	<i>CCNF</i>	-0,95	1,35E-13	-0,55	2,60E-05
ENSG00000149187	<i>CELF1</i>	-0,89	9,89E-37	-0,31	2,71E-05
ENSG00000214262	<i>ANKRD36B</i>	-0,63	2,88E-05	-0,63	2,87E-05
ENSG00000093009	<i>CDC45</i>	-1,19	6,73E-19	-0,57	2,89E-05
ENSG00000145425	<i>LOC100130107</i>	-0,74	5,80E-28	-0,30	3,01E-05
ENSG00000166803	<i>KIAA0101</i>	-0,52	6,98E-06	-0,49	3,01E-05
ENSG00000085788	<i>DDHD2</i>	-0,58	5,66E-07	-0,48	3,01E-05
ENSG00000060688	<i>SNRNP40</i>	-0,56	1,02E-05	-0,53	3,04E-05
ENSG00000149573	<i>MPZL2</i>	-0,31	8,60E-03	-0,47	3,14E-05
ENSG00000140406	<i>MESDC1</i>	-0,96	3,08E-06	-0,86	3,25E-05
ENSG00000088930	<i>XRN2</i>	-0,62	1,15E-15	-0,33	3,31E-05
ENSG00000075218	<i>GTSE1</i>	-0,61	3,79E-09	-0,44	3,38E-05
ENSG00000095752	<i>IL11</i>	-1,11	3,45E-04	-1,27	3,39E-05
ENSG00000119559	<i>C19ORF25</i>	-0,85	2,08E-10	-0,56	3,58E-05
ENSG00000132780	<i>NASP</i>	-0,82	3,13E-32	-0,30	3,90E-05
ENSG00000196208	<i>GREB1</i>	-0,56	1,30E-04	-0,60	4,03E-05
ENSG00000178607	<i>ERN1</i>	-0,96	8,01E-07	-0,80	4,36E-05
ENSG00000141576	<i>RNF157</i>	-1,24	1,60E-26	-0,49	4,37E-05
ENSG00000163812	<i>ZDHHC3</i>	-0,79	7,80E-12	-0,48	4,50E-05
ENSG00000074181	<i>NOTCH3</i>	-0,80	3,67E-08	-0,59	4,56E-05
ENSG00000165030	<i>NFIL3</i>	-0,78	4,60E-11	-0,49	4,74E-05
ENSG00000144824	<i>PHLDB2</i>	-0,51	4,84E-06	-0,46	4,96E-05
ENSG00000151892	<i>GFRA1</i>	-2,99	3,68E-23	-1,15	5,07E-05
ENSG00000125648	<i>SLC25A23</i>	-0,80	4,18E-14	-0,44	5,19E-05
ENSG00000178202	<i>KDELC2</i>	-0,39	8,00E-05	-0,40	5,24E-05

ENSG00000141867	<i>BRD4</i>	-0,43	4,87E-07	-0,35	5,33E-05
ENSG00000112290	<i>WASF1</i>	-0,91	7,27E-14	-0,50	5,46E-05
ENSG00000156504	<i>FAM122B</i>	-0,82	7,73E-12	-0,49	5,46E-05
ENSG00000135801	<i>TAF5L</i>	-0,30	4,94E-03	-0,42	5,57E-05
ENSG00000132002	<i>DNAJB1</i>	-0,26	9,20E-03	-0,38	5,66E-05
ENSG00000143420	<i>ENSA</i>	-0,32	6,92E-05	-0,33	5,73E-05
ENSG00000139211	<i>AMIGO2</i>	-0,72	4,83E-05	-0,71	5,93E-05
ENSG00000156639	<i>ZFAND3</i>	-0,66	9,44E-15	-0,36	6,11E-05
ENSG00000138668	<i>HNRNPD</i>	-0,56	3,09E-11	-0,35	6,11E-05
ENSG00000101310	<i>SEC23B</i>	-0,48	1,04E-10	-0,31	6,50E-05
ENSG00000105618	<i>PRPF31</i>	-0,42	4,52E-03	-0,58	6,61E-05
ENSG00000113368	<i>LMNB1</i>	-0,89	1,18E-26	-0,35	6,67E-05
ENSG00000189343	<i>RPS2P46</i>	-0,77	9,99E-14	-0,43	6,86E-05
ENSG00000181873	<i>C10RF69</i>	-0,52	2,58E-03	-0,67	6,94E-05
ENSG00000028310	<i>BRD9</i>	-0,39	1,49E-03	-0,48	6,96E-05
ENSG00000153107	<i>ANAPC1</i>	-0,63	1,37E-12	-0,37	7,65E-05
ENSG00000146802	<i>TMEM168</i>	-1,05	1,10E-12	-0,59	7,71E-05
ENSG00000151208	<i>DLG5</i>	-0,61	7,23E-10	-0,40	7,77E-05
ENSG00000100425	<i>BRD1</i>	-0,37	1,74E-03	-0,45	7,89E-05
ENSG00000136758	<i>YME1L1</i>	-1,22	1,46E-38	-0,39	7,97E-05
ENSG00000137312	<i>FLOT1</i>	-1,28	8,00E-60	-0,32	8,05E-05
ENSG00000168496	<i>FEN1</i>	-0,46	3,78E-08	-0,34	8,06E-05
ENSG00000136731	<i>UGGT1</i>	-0,41	6,15E-07	-0,33	8,08E-05
ENSG00000136478	<i>TEX2</i>	-0,64	5,83E-09	-0,44	8,14E-05
ENSG00000080608	<i>KIAA0020</i>	-0,98	4,15E-18	-0,46	8,42E-05
ENSG00000023445	<i>BIRC3</i>	-1,61	6,73E-21	-0,68	8,45E-05
ENSG00000198369	<i>SPRED2</i>	-0,54	8,94E-09	-0,38	8,46E-05
ENSG00000163605	<i>PPP4R2</i>	-1,10	7,76E-27	-0,42	8,50E-05
ENSG00000130726	<i>TRIM28</i>	-0,46	8,10E-12	-0,27	8,80E-05
ENSG00000112365	<i>ZBTB24</i>	-0,68	1,48E-05	-0,62	9,04E-05
ENSG00000160691	<i>SHC1</i>	-1,00	2,97E-42	-0,30	9,43E-05
ENSG00000163584	<i>RPL22L1</i>	-1,26	6,58E-20	-0,54	1,08E-04

ENSG00000188971	/	-0,45	5,94E-04	-0,50	1,09E-04
ENSG00000105568	PPP2R1A	-0,80	1,98E-21	-0,34	1,09E-04
ENSG00000104356	POP1	-0,90	4,90E-11	-0,53	1,13E-04
ENSG00000124783	SSR1	-1,45	7,96E-68	-0,34	1,13E-04
ENSG00000198924	DCLRE1A	-0,57	3,49E-05	-0,53	1,15E-04
ENSG00000172716	SLFN11	-0,95	1,45E-04	-0,96	1,20E-04
ENSG00000047644	WWC3	-0,99	7,71E-14	-0,52	1,22E-04
ENSG00000198700	IPO9	-0,28	1,13E-04	-0,28	1,25E-04
ENSG00000184220	C3ORF26	-0,81	1,78E-06	-0,66	1,29E-04
ENSG00000116251	RPL22	-0,57	6,54E-09	-0,38	1,41E-04
ENSG00000095139	ARCN1	-0,26	2,06E-03	-0,31	1,48E-04
ENSG00000155438	MKI67IP	-0,59	2,94E-09	-0,39	1,48E-04
ENSG00000115363	FAM176A	-0,65	1,27E-03	-0,75	1,59E-04
ENSG00000108312	UBTF	-0,48	1,36E-09	-0,31	1,62E-04
ENSG00000184009	ACTG1	-0,47	8,48E-14	-0,25	1,63E-04
ENSG00000165097	KDM1B	-1,73	1,05E-41	-0,48	1,63E-04
ENSG00000112306	RPS12	-0,84	1,71E-28	-0,31	1,64E-04
ENSG00000137285	TUBB2B	-0,63	4,24E-08	-0,44	1,66E-04
ENSG00000125944	HNRNPR	-0,74	8,33E-21	-0,31	1,69E-04
ENSG00000135473	PAN2	-0,47	3,21E-03	-0,59	1,71E-04
ENSG00000170903	KIAA1826	-1,24	1,58E-20	-0,51	1,73E-04
ENSG00000161547	SFRS2	-0,47	1,82E-07	-0,35	1,81E-04
ENSG00000159461	AMFR	-0,36	1,91E-03	-0,43	1,84E-04
ENSG00000135213	LOC729316	-0,77	5,11E-14	-0,40	1,84E-04
ENSG00000005100	DHX33	-0,82	3,05E-15	-0,40	1,92E-04
ENSG00000172197	MBOAT1	-0,95	6,56E-06	-0,79	2,10E-04
ENSG00000167378	IRGQ	-0,52	3,39E-04	-0,53	2,11E-04
ENSG00000137177	KIF13A	-0,69	6,08E-19	-0,30	2,17E-04
ENSG00000121774	KHDRBS1	-0,37	3,40E-07	-0,27	2,20E-04
ENSG00000131153	GINS2	-0,55	4,32E-04	-0,57	2,23E-04
ENSG00000119203	CPSF3	-0,39	2,52E-03	-0,46	2,25E-04
ENSG00000178996	SNX18	-1,01	1,49E-24	-0,38	2,31E-04

ENSG00000182606	<i>TRAK1</i>	-0,37	4,97E-03	-0,47	2,32E-04
ENSG00000157540	<i>DYRK1A</i>	-0,49	1,82E-06	-0,38	2,32E-04
ENSG00000263899	/	-1,16	7,77E-09	-0,74	2,40E-04
ENSG00000128641	<i>MYO1B</i>	-0,28	2,21E-03	-0,33	2,40E-04
ENSG00000136026	<i>CKAP4</i>	-1,61	8,97E-56	-0,39	2,40E-04
ENSG00000146263	<i>C6ORF167</i>	-0,50	5,32E-05	-0,46	2,48E-04
ENSG00000105229	<i>PIAS4</i>	-0,71	4,62E-06	-0,57	2,49E-04
ENSG00000077238	<i>IL4R</i>	-0,44	1,51E-04	-0,42	2,55E-04
ENSG00000100836	<i>PABPN1</i>	-0,62	1,12E-06	-0,47	2,55E-04
ENSG00000100281	<i>HMGXB4</i>	-0,87	3,25E-14	-0,43	2,58E-04
ENSG00000198218	<i>QRICH1</i>	-0,32	8,12E-04	-0,34	2,69E-04
ENSG00000100426	<i>ZBED4</i>	-0,98	2,11E-18	-0,42	2,73E-04
ENSG00000141905	<i>NFIC</i>	-0,51	1,26E-04	-0,49	2,84E-04
ENSG00000157456	<i>CCNB2</i>	-0,36	1,21E-04	-0,34	2,86E-04
ENSG00000119682	<i>KIAA0317</i>	-0,62	1,61E-08	-0,41	2,94E-04
ENSG00000166526	<i>ZNF3</i>	-1,17	7,67E-23	-0,44	3,09E-04
ENSG00000115963	<i>RND3</i>	-0,99	3,17E-28	-0,34	3,18E-04
ENSG00000198860	<i>TSEN15</i>	-0,46	1,73E-04	-0,44	3,18E-04
ENSG00000126773	<i>C14ORF135</i>	-0,33	6,22E-05	-0,30	3,20E-04
ENSG00000055163	<i>CYFIP2</i>	-1,14	3,97E-09	-0,70	3,27E-04
ENSG00000136982	<i>DSCC1</i>	-1,02	5,19E-12	-0,54	3,33E-04
ENSG00000066084	<i>DIP2B</i>	-0,68	3,60E-18	-0,30	3,36E-04
ENSG00000116128	<i>BCL9</i>	-0,45	5,83E-04	-0,47	3,40E-04
ENSG00000075275	<i>CELSR1</i>	-0,73	9,76E-19	-0,31	3,42E-04
ENSG00000171208	<i>NETO2</i>	-0,86	2,67E-09	-0,52	3,44E-04
ENSG00000188725	<i>C5ORF43</i>	-0,52	2,33E-06	-0,40	3,47E-04
ENSG00000151692	<i>RNF144A</i>	-0,49	9,14E-03	-0,66	3,48E-04
ENSG00000101040	<i>ZMYND8</i>	-0,76	3,72E-19	-0,32	3,49E-04
ENSG00000111981	<i>ULBP1</i>	-1,65	1,83E-12	-0,83	3,62E-04
ENSG00000145220	<i>LYAR</i>	-0,96	3,18E-13	-0,49	3,62E-04
ENSG00000090621	<i>PABPC4</i>	-0,91	8,53E-23	-0,35	3,72E-04
ENSG00000178921	<i>PFAS</i>	-0,66	1,22E-14	-0,32	3,77E-04

ENSG00000103187	<i>COTL1</i>	-1,04	1,54E-13	-0,51	3,85E-04
ENSG00000100297	<i>MCM5</i>	-0,43	5,44E-07	-0,31	3,85E-04
ENSG00000170471	<i>RALGAPB</i>	-0,28	1,22E-03	-0,31	3,85E-04
ENSG00000101361	<i>NOP56</i>	-0,51	2,00E-12	-0,27	3,87E-04
ENSG00000103342	<i>GSPT1</i>	-0,74	1,58E-23	-0,28	3,88E-04
ENSG00000129250	<i>KIF1C</i>	-1,31	6,37E-86	-0,25	4,01E-04
ENSG00000166562	<i>SEC11C</i>	-1,07	1,53E-08	-0,68	4,29E-04
ENSG00000186575	<i>NF2</i>	-1,49	9,05E-36	-0,43	4,45E-04
ENSG00000164741	<i>DLC1</i>	-0,52	2,84E-11	-0,28	4,46E-04
ENSG00000139350	<i>NEDD1</i>	-0,73	2,09E-06	-0,55	4,46E-04
ENSG00000162545	<i>CAMK2N1</i>	-0,85	3,77E-08	-0,55	4,47E-04
ENSG00000111605	<i>CPSF6</i>	-0,33	6,53E-05	-0,30	4,62E-04
ENSG00000007168	<i>PAFAH1B1</i>	-0,34	6,37E-06	-0,27	4,63E-04
ENSG00000165724	<i>ZMYND19</i>	-0,64	1,56E-04	-0,59	4,66E-04
ENSG00000235499	<i>AC073046.25</i>	-0,83	5,36E-03	-1,02	4,75E-04
ENSG00000104064	<i>GABPB1</i>	-0,55	5,26E-05	-0,48	4,83E-04
ENSG00000189221	<i>MAOA</i>	-0,47	2,46E-03	-0,53	4,92E-04
ENSG00000188021	<i>UBQLN2</i>	-1,07	9,28E-13	-0,53	4,92E-04
ENSG00000161638	<i>ITGA5</i>	-0,75	2,42E-12	-0,39	5,17E-04
ENSG00000124422	<i>USP22</i>	-0,90	3,81E-33	-0,28	5,20E-04
ENSG00000166147	<i>FBN1</i>	-0,58	1,51E-06	-0,42	5,24E-04
ENSG00000168993	<i>CPLX1</i>	-0,94	4,90E-03	-1,14	5,29E-04
ENSG00000101294	<i>HM13</i>	-0,25	1,17E-03	-0,27	5,51E-04
ENSG00000110367	<i>DDX6</i>	-0,37	1,09E-04	-0,33	5,52E-04
ENSG00000100906	<i>NFKBIA</i>	-0,49	7,42E-05	-0,43	5,57E-04
ENSG00000135372	<i>NAT10</i>	-1,11	6,34E-29	-0,36	5,60E-04
ENSG00000080819	<i>CPOX</i>	-0,67	1,75E-07	-0,45	5,60E-04
ENSG00000187735	<i>TCEA1</i>	-0,47	9,25E-08	-0,32	5,63E-04
ENSG00000113296	<i>THBS4</i>	-0,94	2,85E-05	-0,78	5,63E-04
ENSG00000101109	<i>STK4</i>	-0,58	8,27E-09	-0,36	5,65E-04
ENSG00000104635	<i>SLC39A14</i>	-0,95	9,84E-32	-0,30	5,76E-04
ENSG00000131653	<i>TRAF7</i>	-0,81	1,79E-14	-0,38	5,81E-04

ENSG00000118707	<i>TGIF2</i>	-1,16	1,70E-34	-0,34	5,81E-04
ENSG00000198885	<i>ITPRIPL1</i>	-0,90	3,95E-05	-0,76	5,83E-04
ENSG00000008988	<i>RPS20</i>	-0,55	1,36E-12	-0,28	6,01E-04
ENSG00000143761	<i>ARF1</i>	-0,38	3,68E-08	-0,25	6,04E-04
ENSG00000196182	<i>STK40</i>	-1,05	4,55E-22	-0,38	6,13E-04
ENSG00000166233	<i>ARIH1</i>	-0,66	1,12E-11	-0,35	6,19E-04
ENSG00000166454	<i>ATMIN</i>	-0,42	1,09E-03	-0,43	6,31E-04
ENSG00000124920	<i>C11ORF9</i>	-0,76	1,46E-20	-0,30	6,34E-04
ENSG00000183530	<i>C22ORF30</i>	-0,42	1,91E-06	-0,31	6,50E-04
ENSG00000198053	<i>SIRPA</i>	-1,26	2,44E-05	-1,03	6,63E-04
ENSG00000160710	<i>ADAR</i>	-0,25	9,02E-04	-0,26	6,65E-04
ENSG00000107566	<i>ERLIN1</i>	-0,95	4,50E-21	-0,36	6,74E-04
ENSG00000131899	<i>LLGL1</i>	-0,36	1,04E-03	-0,38	6,87E-04
ENSG00000168209	<i>DDIT4</i>	-1,29	1,89E-08	-0,79	7,10E-04
ENSG00000163362	<i>C1ORF106</i>	-0,29	7,91E-03	-0,36	7,13E-04
ENSG00000138346	<i>DNA2</i>	-0,40	8,46E-03	-0,50	7,19E-04
ENSG00000255529	<i>POLR2M</i>	-0,42	3,02E-03	-0,47	7,38E-04
ENSG00000142945	<i>KIF2C</i>	-0,80	6,35E-20	-0,31	7,49E-04
ENSG00000174903	<i>RAB1B</i>	-0,66	9,47E-10	-0,38	7,54E-04
ENSG00000197472	<i>ZNF695</i>	-0,69	3,60E-04	-0,65	7,63E-04
ENSG00000152455	<i>SUV39H2</i>	-0,47	1,43E-03	-0,49	7,63E-04
ENSG00000160888	<i>IER2</i>	-0,68	5,84E-07	-0,47	7,77E-04
ENSG00000124207	<i>CSE1L</i>	-0,66	1,10E-14	-0,30	7,91E-04
ENSG00000160685	<i>ZBTB7B</i>	-0,74	7,85E-13	-0,36	8,16E-04
ENSG00000100029	<i>PES1</i>	-1,05	1,54E-33	-0,31	8,17E-04
ENSG00000047315	<i>POLR2B</i>	-0,59	6,88E-17	-0,25	8,38E-04
ENSG00000253729	<i>PRKDC</i>	-0,53	3,21E-12	-0,27	8,60E-04
ENSG00000196498	<i>NCOR2</i>	-1,43	8,09E-38	-0,38	8,62E-04
ENSG00000151718	<i>WWC2</i>	-0,30	5,82E-04	-0,29	8,69E-04
ENSG00000146674	<i>IGFBP3</i>	-1,21	3,36E-29	-0,37	8,77E-04
ENSG00000163755	<i>HPS3</i>	-0,54	2,90E-05	-0,44	8,97E-04
ENSG00000072501	<i>SMC1A</i>	-1,47	4,06E-49	-0,36	9,03E-04

ENSG00000133112	<i>LOC285741</i>	-0,51	1,46E-13	-0,24	9,67E-04
ENSG00000166986	<i>MARS</i>	-0,88	1,84E-26	-0,29	9,67E-04
ENSG00000137221	<i>TJAP1</i>	-0,45	8,15E-05	-0,39	9,70E-04
ENSG00000160124	<i>CCDC58</i>	-0,68	1,66E-06	-0,48	9,81E-04
ENSG00000228278	<i>ORM2</i>	-1,15	1,53E-11	-0,58	9,81E-04
ENSG00000129810	<i>SGOL1</i>	-0,56	2,60E-05	-0,45	9,89E-04
ENSG00000120705	<i>ETF1</i>	-0,57	6,53E-15	-0,26	9,99E-04
ENSG00000100603	<i>SNW1</i>	-0,32	5,13E-03	-0,36	1,02E-03
ENSG00000103275	<i>UBE2I</i>	-0,64	7,48E-07	-0,43	1,03E-03
ENSG00000153207	<i>AHCTF1</i>	-0,30	1,80E-03	-0,31	1,04E-03
ENSG00000138166	<i>DUSP5</i>	-2,04	2,50E-34	-0,54	1,05E-03
ENSG00000119231	<i>SENP5</i>	-0,30	4,93E-03	-0,35	1,06E-03
ENSG00000117133	<i>RPF1</i>	-0,48	4,15E-04	-0,45	1,06E-03
ENSG00000092758	<i>COL9A3</i>	-1,07	1,66E-07	-0,68	1,08E-03
ENSG00000163159	<i>VPS72</i>	-0,65	6,90E-10	-0,36	1,08E-03
ENSG00000136518	<i>ACTL6A</i>	-0,33	1,05E-04	-0,28	1,08E-03
ENSG00000116127	<i>ALMS1</i>	-1,57	6,23E-27	-0,49	1,09E-03
ENSG00000182319	<i>SGK223</i>	-0,68	7,17E-07	-0,46	1,10E-03
ENSG00000120526	<i>NUDCD1</i>	-0,45	6,54E-05	-0,38	1,13E-03
ENSG00000132164	<i>SLC6A11</i>	-0,90	1,97E-09	-0,50	1,14E-03
ENSG00000021776	<i>AQR</i>	-0,45	1,32E-04	-0,39	1,16E-03
ENSG00000172432	<i>GTPBP2</i>	-0,48	2,80E-05	-0,38	1,18E-03
ENSG00000187231	<i>SESTD1</i>	-0,48	6,82E-09	-0,28	1,18E-03
ENSG00000262944	/	-0,60	8,71E-04	-0,59	1,19E-03
ENSG00000180535	<i>BHLHA15</i>	-0,94	7,16E-03	-1,11	1,21E-03
ENSG00000142186	<i>SCYL1</i>	-0,39	2,35E-04	-0,35	1,21E-03
ENSG00000196781	<i>LOC645381</i>	-0,22	8,31E-03	-0,27	1,22E-03
ENSG00000103194	<i>USP10</i>	-0,36	1,35E-04	-0,31	1,22E-03
ENSG00000167395	<i>ZNF646</i>	-0,31	9,32E-03	-0,38	1,25E-03
ENSG00000100941	<i>PNN</i>	-0,37	2,76E-05	-0,29	1,27E-03
ENSG00000150961	<i>SEC24D</i>	-0,82	1,23E-16	-0,34	1,27E-03
ENSG00000162039	<i>C16ORF73</i>	-0,76	3,65E-06	-0,54	1,32E-03

ENSG00000111266	<i>DUSP16</i>	-0,58	1,90E-07	-0,37	1,33E-03
ENSG00000133056	<i>PIK3C2B</i>	-0,54	5,36E-07	-0,36	1,34E-03
ENSG00000150093	<i>ITGB1</i>	-0,56	2,24E-14	-0,25	1,35E-03
ENSG00000177731	<i>FLII</i>	-0,30	1,54E-04	-0,26	1,35E-03
ENSG00000115163	<i>CENPA</i>	-0,61	2,65E-04	-0,54	1,35E-03
ENSG00000104331	<i>IMPAD1</i>	-0,45	2,16E-07	-0,29	1,35E-03
ENSG00000151247	<i>EIF4E</i>	-0,33	1,97E-03	-0,34	1,37E-03
ENSG00000133740	<i>E2F5</i>	-0,57	5,11E-03	-0,64	1,39E-03
ENSG00000137073	<i>UBAP2</i>	-0,38	4,73E-05	-0,31	1,39E-03
ENSG00000011426	<i>ANLN</i>	-0,39	2,52E-05	-0,30	1,40E-03
ENSG00000162980	<i>ARL5A</i>	-1,17	2,76E-28	-0,36	1,41E-03
ENSG00000101407	<i>KIAA0406</i>	-0,95	5,29E-24	-0,32	1,41E-03
ENSG00000089876	<i>DHX32</i>	-0,80	3,46E-07	-0,51	1,45E-03
ENSG00000115241	<i>PPM1G</i>	-0,41	2,79E-06	-0,29	1,47E-03
ENSG00000116478	<i>HDAC1</i>	-0,52	2,42E-10	-0,27	1,59E-03
ENSG00000143799	<i>PARP1</i>	-0,86	3,85E-28	-0,27	1,60E-03
ENSG00000183520	<i>UTP11L</i>	-0,64	1,47E-08	-0,37	1,62E-03
ENSG00000077942	<i>FBLN1</i>	-0,31	3,08E-05	-0,24	1,65E-03
ENSG00000213699	<i>C2ORF18</i>	-0,62	1,13E-07	-0,38	1,69E-03
ENSG00000100225	<i>FBXO7</i>	-0,27	2,85E-03	-0,28	1,71E-03
ENSG00000153574	<i>RPIA</i>	-0,53	1,38E-03	-0,51	1,76E-03
ENSG00000136295	<i>TTYH3</i>	-0,27	3,71E-03	-0,29	1,76E-03
ENSG00000122565	<i>CBX3</i>	-0,27	2,19E-04	-0,23	1,77E-03
ENSG00000129911	<i>KLF16</i>	-0,51	4,86E-03	-0,57	1,77E-03
ENSG00000165732	<i>DDX21</i>	-0,82	6,16E-26	-0,26	1,78E-03
ENSG00000103365	<i>GGA2</i>	-0,25	1,43E-03	-0,24	1,85E-03
ENSG00000185104	<i>FAF1</i>	-0,35	3,12E-03	-0,37	1,88E-03
ENSG00000116991	<i>SIPA1L2</i>	-1,77	1,80E-40	-0,41	1,88E-03
ENSG00000172216	<i>CEBPB</i>	-0,76	8,86E-04	-0,71	1,92E-03
ENSG00000125885	<i>MCM8</i>	-0,76	1,38E-12	-0,35	1,93E-03
ENSG00000153113	<i>CAST</i>	-0,30	2,15E-04	-0,26	1,99E-03
ENSG00000178999	<i>AURKB</i>	-0,37	3,86E-05	-0,29	1,99E-03

ENSG00000153310	<i>FAM49B</i>	-0,48	1,64E-08	-0,27	2,00E-03
ENSG00000167005	<i>NUDT21</i>	-0,30	1,42E-03	-0,30	2,02E-03
ENSG00000086598	<i>TMED2</i>	-0,29	1,86E-04	-0,25	2,04E-03
ENSG00000213064	<i>SFT2D2</i>	-0,70	2,20E-06	-0,46	2,06E-03
ENSG00000135097	<i>MSI1</i>	-1,91	2,10E-24	-0,57	2,11E-03
ENSG00000189410	<i>SH2D5</i>	-0,65	6,75E-03	-0,73	2,12E-03
ENSG00000113083	<i>LOX</i>	-1,48	3,08E-25	-0,45	2,16E-03
ENSG00000128050	<i>PAICS</i>	-0,80	4,04E-37	-0,21	2,17E-03
ENSG00000105173	<i>CCNE1</i>	-0,61	1,35E-03	-0,58	2,20E-03
ENSG00000147905	<i>ZCCHC7</i>	-0,98	1,12E-07	-0,58	2,22E-03
ENSG00000173890	<i>GPR160</i>	-0,41	8,64E-03	-0,46	2,24E-03
ENSG00000130723	<i>BAT2L1</i>	-0,35	1,53E-06	-0,24	2,25E-03
ENSG00000100749	<i>VRK1</i>	-0,55	5,15E-05	-0,42	2,27E-03
ENSG00000086589	<i>RBM22</i>	-0,37	3,38E-03	-0,38	2,30E-03
ENSG00000149591	<i>TAGLN</i>	-0,62	7,05E-04	-0,56	2,32E-03
ENSG00000128849	<i>CGNL1</i>	-1,45	1,25E-23	-0,45	2,35E-03
ENSG00000071994	<i>PDCD2</i>	-0,39	8,64E-04	-0,36	2,35E-03
ENSG00000118181	<i>RPS25</i>	-0,67	3,23E-13	-0,30	2,36E-03
ENSG00000105983	<i>LMBR1</i>	-0,68	1,94E-12	-0,31	2,36E-03
ENSG00000145781	<i>COMMD10</i>	-0,67	2,34E-03	-0,66	2,38E-03
ENSG00000136450	<i>SFRS1</i>	-0,56	1,09E-14	-0,23	2,38E-03
ENSG00000145365	<i>TIFA</i>	-0,65	1,80E-03	-0,64	2,43E-03
ENSG00000100316	<i>LOC653881</i>	-0,80	1,12E-30	-0,23	2,46E-03
ENSG00000048828	<i>FAM120A</i>	-0,37	1,48E-05	-0,27	2,49E-03
ENSG00000101158	<i>TH1L</i>	-0,35	9,76E-05	-0,28	2,50E-03
ENSG00000196588	<i>MKL1</i>	-1,22	5,24E-26	-0,37	2,52E-03
ENSG00000146410	<i>FAM54A</i>	-0,53	2,01E-03	-0,52	2,53E-03
ENSG00000102317	<i>RBM3</i>	-0,75	1,31E-14	-0,31	2,54E-03
ENSG00000187109	<i>NAP1L1</i>	-1,37	1,61E-66	-0,26	2,59E-03
ENSG00000144724	<i>PTPRG</i>	-0,81	2,38E-15	-0,32	2,64E-03
ENSG00000163807	<i>KIAA1143</i>	-0,56	5,80E-06	-0,38	2,67E-03
ENSG00000022567	<i>SLC45A4</i>	-0,74	1,78E-13	-0,32	2,67E-03

ENSG00000176208	<i>ATAD5</i>	-0,59	1,39E-04	-0,47	2,69E-03
ENSG00000156374	<i>PCGF6</i>	-0,56	2,65E-03	-0,56	2,69E-03
ENSG00000171262	<i>FAM98B</i>	-0,64	1,97E-08	-0,36	2,69E-03
ENSG00000113758	<i>DBN1</i>	-0,40	1,61E-06	-0,26	2,71E-03
ENSG00000204356	<i>RDBP</i>	-0,39	2,36E-05	-0,28	2,73E-03
ENSG00000164818	<i>HEATR2</i>	-0,38	2,31E-04	-0,32	2,74E-03
ENSG00000101966	<i>XIAP</i>	-0,72	3,28E-09	-0,38	2,77E-03
ENSG00000122406	<i>RPL5</i>	-0,75	1,00E-30	-0,21	2,80E-03
ENSG00000198791	<i>CNOT7</i>	-0,40	4,31E-06	-0,27	2,80E-03
ENSG00000088247	<i>KHSRP</i>	-0,26	7,00E-04	-0,23	2,95E-03
ENSG00000170638	<i>TRABD</i>	-0,44	9,08E-03	-0,50	2,97E-03
ENSG00000101266	<i>CSNK2A1</i>	-0,91	2,02E-33	-0,24	3,00E-03
ENSG00000111596	<i>CNOT2</i>	-0,53	5,63E-08	-0,30	3,00E-03
ENSG00000177733	<i>HNRNPA0</i>	-0,58	6,90E-08	-0,33	3,00E-03
ENSG00000131873	<i>CHSY1</i>	-1,48	3,32E-07	-0,87	3,10E-03
ENSG00000146909	<i>NOM1</i>	-0,49	2,86E-05	-0,36	3,11E-03
ENSG00000142676	<i>RPL11</i>	-0,44	4,80E-09	-0,23	3,12E-03
ENSG00000149273	<i>RPS3</i>	-0,53	1,08E-09	-0,28	3,19E-03
ENSG00000146574	<i>C7ORF28A</i>	-0,35	8,40E-03	-0,38	3,19E-03
ENSG00000092969	<i>TGFB2</i>	-1,02	1,48E-22	-0,32	3,24E-03
ENSG00000112081	<i>SFRS3</i>	-0,44	8,23E-11	-0,21	3,28E-03
ENSG00000100030	<i>MAPK1</i>	-0,48	7,88E-09	-0,26	3,30E-03
ENSG00000108551	<i>RASD1</i>	-0,58	6,97E-03	-0,62	3,32E-03
ENSG00000005007	<i>UPF1</i>	-0,32	3,50E-04	-0,27	3,33E-03
ENSG00000130294	<i>KIF1A</i>	-0,85	4,65E-07	-0,51	3,35E-03
ENSG00000104320	<i>NBN</i>	-0,36	1,73E-03	-0,33	3,43E-03
ENSG00000203875	<i>SNHG5</i>	-0,51	7,77E-03	-0,55	3,43E-03
ENSG00000136940	<i>PDCL</i>	-0,74	9,48E-09	-0,39	3,47E-03
ENSG00000140474	<i>ULK3</i>	-0,40	4,20E-03	-0,41	3,49E-03
ENSG00000103429	<i>BFAR</i>	-0,29	4,16E-03	-0,30	3,56E-03
ENSG00000013810	<i>TACC3</i>	-0,48	2,98E-08	-0,26	3,59E-03
ENSG00000116786	<i>PLEKHM2</i>	-0,34	6,01E-03	-0,36	3,61E-03

ENSG00000159921	<i>GNE</i>	-0,38	8,13E-04	-0,33	3,68E-03
ENSG00000148426	<i>C10ORF47</i>	-0,54	3,94E-03	-0,54	3,69E-03
ENSG00000089063	<i>C20ORF30</i>	-0,25	3,46E-03	-0,25	3,71E-03
ENSG00000116539	<i>ASH1L</i>	-0,71	4,30E-17	-0,26	3,72E-03
ENSG00000152518	<i>ZFP36L2</i>	-0,46	3,10E-06	-0,30	3,73E-03
ENSG00000145362	<i>ANK2</i>	-0,59	3,88E-07	-0,35	3,74E-03
ENSG00000205937	<i>LOC643446</i>	-0,34	2,10E-03	-0,32	3,74E-03
ENSG00000171517	<i>LPAR3</i>	-1,18	1,47E-08	-0,62	3,77E-03
ENSG00000165802	<i>NELF</i>	-0,93	1,24E-19	-0,31	3,82E-03
ENSG00000137409	<i>MTCH1</i>	-0,36	5,66E-07	-0,22	3,93E-03
ENSG00000167118	<i>URM1</i>	-0,67	3,16E-08	-0,36	3,96E-03
ENSG00000177954	<i>RPS27</i>	-0,54	4,57E-13	-0,23	4,05E-03
ENSG00000105810	<i>CDK6</i>	-1,26	1,15E-54	-0,25	4,19E-03
ENSG00000156795	<i>WDYHV1</i>	-0,99	3,39E-07	-0,57	4,26E-03
ENSG00000188522	<i>FAM83G</i>	-0,42	2,66E-06	-0,27	4,33E-03
ENSG00000100479	<i>POLE2</i>	-0,59	2,45E-03	-0,56	4,36E-03
ENSG00000132640	<i>BTBD3</i>	-1,18	9,53E-26	-0,34	4,41E-03
ENSG00000104299	<i>INTS9</i>	-0,48	4,79E-03	-0,48	4,49E-03
ENSG00000137807	<i>KIF23</i>	-0,41	7,95E-05	-0,30	4,61E-03
ENSG00000116809	<i>ZBTB17</i>	-0,70	6,18E-07	-0,41	4,69E-03
ENSG00000169908	<i>TM4SF1</i>	-1,49	1,80E-05	-1,01	4,74E-03
ENSG00000115946	<i>PNO1</i>	-0,74	1,22E-11	-0,32	4,80E-03
ENSG00000143368	<i>SF3B4</i>	-0,48	3,82E-08	-0,26	4,80E-03
ENSG00000183955	<i>SETD8</i>	-0,62	5,67E-08	-0,34	4,99E-03
ENSG00000011275	<i>RNF216</i>	-0,59	1,80E-11	-0,26	5,05E-03
ENSG00000010165	<i>METTL13</i>	-0,47	7,06E-08	-0,26	5,11E-03
ENSG00000185686	<i>PRAME</i>	-0,95	3,01E-07	-0,53	5,12E-03
ENSG00000196227	<i>C20ORF177</i>	-1,03	6,20E-13	-0,42	5,16E-03
ENSG00000001036	<i>FUCA2</i>	-0,62	3,47E-10	-0,29	5,35E-03
ENSG00000182158	<i>CREB3L2</i>	-0,44	7,88E-07	-0,26	5,52E-03
ENSG00000198890	<i>PRMT6</i>	-0,57	4,81E-06	-0,35	5,59E-03
ENSG00000101911	<i>PRPS2</i>	-0,71	7,10E-06	-0,45	5,69E-03

ENSG00000169756	<i>LIMS1</i>	-0,35	1,43E-05	-0,24	5,73E-03
ENSG00000182054	<i>IDH2</i>	-0,59	2,48E-09	-0,29	5,74E-03
ENSG00000159259	<i>CHAF1B</i>	-0,69	3,09E-05	-0,47	5,81E-03
ENSG00000166441	<i>RPL27A</i>	-0,72	3,74E-20	-0,24	5,89E-03
ENSG00000078269	<i>SYNJ2</i>	-0,59	6,45E-12	-0,25	5,89E-03
ENSG00000132510	<i>KDM6B</i>	-0,28	8,73E-03	-0,30	5,98E-03
ENSG00000188559	<i>RALGAPA2</i>	-1,41	4,80E-40	-0,31	6,05E-03
ENSG00000165392	<i>LOC652522</i>	-1,16	1,70E-19	-0,37	6,10E-03
ENSG00000102572	<i>STK24</i>	-0,28	2,14E-04	-0,22	6,11E-03
ENSG00000131626	<i>PPFIA1</i>	-0,46	3,91E-08	-0,24	6,14E-03
ENSG00000174469	<i>CNTNAP2</i>	-0,85	3,42E-03	-0,80	6,28E-03
ENSG00000125257	<i>ABCC4</i>	-0,41	3,70E-04	-0,32	6,32E-03
ENSG00000088205	<i>DDX18</i>	-0,57	7,24E-13	-0,23	6,52E-03
ENSG00000205542	<i>TMSB4X</i>	-0,50	3,06E-09	-0,25	6,53E-03
ENSG00000182307	<i>C8ORF33</i>	-0,85	5,95E-21	-0,26	6,58E-03
ENSG00000119318	<i>RAD23B</i>	-1,11	9,85E-69	-0,19	6,62E-03
ENSG00000091542	<i>ALKBH5</i>	-0,35	1,06E-04	-0,25	6,64E-03
ENSG00000113460	<i>BRX1</i>	-0,69	1,63E-08	-0,35	6,69E-03
ENSG00000239306	<i>RBM14</i>	-0,28	9,91E-03	-0,29	6,77E-03
ENSG00000110700	<i>RPS13</i>	-0,61	8,12E-16	-0,22	6,87E-03
ENSG00000142937	<i>RPS8</i>	-0,57	1,79E-14	-0,22	6,90E-03
ENSG00000065615	<i>CYB5R4</i>	-0,64	5,72E-04	-0,51	6,91E-03
ENSG00000133226	<i>SRRM1</i>	-0,64	1,35E-13	-0,25	7,00E-03
ENSG00000114982	<i>KIAA1310</i>	-0,26	6,51E-03	-0,26	7,07E-03
ENSG00000155130	<i>MARCKS</i>	-0,91	1,45E-33	-0,22	7,08E-03
ENSG00000145860	<i>RNF145</i>	-1,73	4,76E-19	-0,53	7,10E-03
ENSG00000119771	<i>KLHL29</i>	-1,25	5,94E-16	-0,43	7,20E-03
ENSG00000136527	<i>TRA2B</i>	-0,37	3,62E-07	-0,21	7,28E-03
ENSG00000182979	<i>MTA1</i>	-0,50	4,17E-06	-0,30	7,33E-03
ENSG00000129187	<i>DCD</i>	-0,70	3,15E-09	-0,33	7,37E-03
ENSG00000100162	<i>CENPM</i>	-0,59	6,62E-05	-0,41	7,51E-03
ENSG00000100065	<i>CARD10</i>	-0,34	1,20E-03	-0,28	7,71E-03

ENSG00000130695	<i>CCDC21</i>	-0,33	7,81E-03	-0,33	7,76E-03
ENSG00000187051	<i>RPS19BP1</i>	-0,68	1,43E-07	-0,36	7,87E-03
ENSG00000128512	<i>DOCK4</i>	-0,37	1,88E-04	-0,28	7,91E-03
ENSG00000138629	<i>UBL7</i>	-0,42	1,16E-04	-0,30	7,97E-03
ENSG00000108298	<i>RPL19</i>	-0,42	1,73E-11	-0,18	7,99E-03
ENSG00000224531	<i>SMIM13</i>	-0,37	6,82E-04	-0,30	8,07E-03
ENSG00000163155	<i>LYSMD1</i>	-1,48	1,22E-15	-0,50	8,17E-03
ENSG00000115875	<i>SFRS7</i>	-0,45	3,40E-08	-0,23	8,47E-03
ENSG00000156697	<i>UTP14A</i>	-0,75	3,16E-08	-0,38	8,49E-03
ENSG00000141668	<i>CBLN2</i>	-1,37	2,98E-07	-0,72	8,50E-03
ENSG00000186416	<i>NKRF</i>	-0,90	1,23E-08	-0,43	8,70E-03
ENSG00000166068	<i>SPRED1</i>	-0,55	2,25E-04	-0,40	8,70E-03
ENSG00000163507	<i>KIAA1524</i>	-0,35	2,52E-03	-0,30	8,76E-03
ENSG00000081154	<i>PCNP</i>	-1,47	4,06E-49	-0,28	8,83E-03
ENSG00000142528	<i>ZNF473</i>	-1,12	1,73E-14	-0,40	8,84E-03
ENSG00000132031	<i>MATN3</i>	-0,68	9,04E-07	-0,38	8,92E-03
ENSG00000173950	<i>C3ORF21</i>	-0,82	2,68E-08	-0,40	8,95E-03
ENSG00000164362	<i>TERT</i>	-0,94	8,08E-05	-0,64	9,10E-03
ENSG00000168758	<i>SEMA4C</i>	-0,54	1,70E-06	-0,31	9,26E-03
ENSG00000173598	<i>NUDT4</i>	-0,57	1,46E-10	-0,25	9,28E-03
ENSG00000129128	<i>SPCS3</i>	-1,31	4,11E-36	-0,30	9,30E-03
ENSG00000159140	<i>SON</i>	-0,53	9,31E-14	-0,20	9,36E-03
ENSG00000168615	<i>ADAM9</i>	-0,52	2,60E-11	-0,22	9,44E-03
ENSG00000013275	<i>LOC652826</i>	-0,36	1,57E-04	-0,26	9,46E-03
ENSG00000137876	<i>RSL24D1</i>	-0,91	1,88E-23	-0,25	9,71E-03
ENSG00000185269	<i>NOTUM</i>	-1,75	3,75E-10	-0,73	9,73E-03
ENSG00000138823	<i>MTTP</i>	2,10	5,03E-134	1,98	5,93E-120
ENSG00000165092	<i>ALDH1A1</i>	0,34	3,31E-09	1,19	9,32E-107
ENSG00000167244	<i>IGF2</i>	0,22	9,42E-04	1,18	2,48E-83
ENSG00000138449	<i>SLC40A1</i>	1,65	2,79E-125	1,25	6,35E-72
ENSG00000072210	<i>ALDH3A2</i>	1,00	5,68E-48	1,14	3,51E-62
ENSG00000115904	<i>SOS1</i>	0,58	1,57E-08	1,53	7,02E-58

ENSG00000081051	<i>AFP</i>	1,31	6,18E-56	1,31	6,28E-56
ENSG00000163536	<i>SERPINI1</i>	1,85	1,20E-60	1,77	7,09E-56
ENSG00000196937	<i>FAM3C</i>	1,47	1,76E-32	1,87	1,02E-53
ENSG00000134717	<i>BTF3L4</i>	1,38	1,93E-32	1,75	2,23E-53
ENSG00000023839	<i>ABCC2</i>	0,96	8,17E-30	1,22	1,76E-48
ENSG00000135318	<i>NT5E</i>	1,15	2,19E-15	1,99	1,80E-46
ENSG00000106853	<i>PTGR1</i>	2,80	1,79E-121	1,72	1,74E-44
ENSG00000178988	<i>MRFAP1L1</i>	0,59	8,24E-08	1,38	6,49E-42
ENSG00000142484	<i>TM4SF5</i>	0,96	9,83E-23	1,29	8,43E-41
ENSG00000162409	<i>PRKAA2</i>	0,87	4,37E-18	1,29	4,55E-40
ENSG00000117528	<i>ABCD3</i>	0,94	8,11E-24	1,21	2,13E-39
ENSG00000135046	<i>ANXA1</i>	1,02	1,06E-09	2,04	2,79E-38
ENSG00000104325	<i>DECR1</i>	0,82	3,35E-19	1,15	3,86E-38
ENSG00000067057	<i>PFKP</i>	0,81	7,04E-11	1,50	1,60E-37
ENSG00000162817	<i>C1ORF115</i>	1,27	8,72E-37	1,25	6,64E-36
ENSG00000070061	<i>IKBKAP</i>	0,33	1,97E-04	1,03	1,17E-35
ENSG00000121057	<i>AKAP1</i>	1,16	4,30E-51	0,96	9,29E-35
ENSG00000152601	<i>MBNL1</i>	0,90	2,25E-22	1,10	2,84E-33
ENSG00000148834	<i>GSTO1</i>	0,37	2,22E-06	0,89	3,19E-33
ENSG00000163492	<i>CCDC141</i>	0,40	9,68E-03	1,59	2,20E-32
ENSG00000123124	<i>WWP1</i>	0,85	9,09E-19	1,11	4,15E-32
ENSG00000181019	<i>NQO1</i>	0,91	1,02E-27	0,97	1,48E-31
ENSG00000116209	<i>TMEM59</i>	0,41	1,85E-06	0,92	3,17E-30
ENSG00000112078	<i>KCTD20</i>	0,66	9,06E-15	0,93	1,87E-29
ENSG00000151632	<i>AKR1C2</i>	1,61	4,41E-49	1,24	3,26E-29
ENSG00000100292	<i>HMOX1</i>	2,17	3,81E-96	1,18	9,06E-28
ENSG00000165526	<i>RPUSD4</i>	0,77	1,62E-07	1,50	2,13E-27
ENSG00000196975	<i>ANXA4</i>	0,61	7,27E-12	0,94	5,87E-27
ENSG00000168385	<i>SEPT2</i>	0,68	7,98E-27	0,68	9,82E-27
ENSG00000139112	<i>GABARAPL1</i>	0,95	1,50E-16	1,20	2,32E-26
ENSG00000107104	<i>KANK1</i>	0,84	1,47E-17	1,02	5,82E-26
ENSG00000151090	<i>THRB</i>	1,10	2,92E-30	1,01	9,02E-26

ENSG00000186106	<i>ANKRD46</i>	0,97	2,62E-15	1,26	1,05E-25
ENSG00000197410	<i>DCHS2</i>	0,51	6,65E-03	1,70	2,21E-25
ENSG00000155760	<i>FZD7</i>	1,28	8,02E-15	1,66	3,46E-25
ENSG00000111269	<i>CREBL2</i>	0,86	1,51E-07	1,60	4,19E-25
ENSG00000130208	<i>APOC1</i>	0,81	9,51E-25	0,82	4,55E-25
ENSG00000111897	<i>SERINC1</i>	0,42	4,99E-09	0,71	1,39E-24
ENSG00000127324	<i>TSPAN8</i>	1,29	2,70E-21	1,38	1,61E-24
ENSG00000150593	<i>PDCD4</i>	0,42	4,39E-04	1,10	1,25E-23
ENSG00000244187	<i>TMEM141</i>	0,48	3,65E-06	0,98	1,51E-23
ENSG00000163586	<i>FABP1</i>	2,33	3,66E-96	1,14	7,29E-23
ENSG00000143164	<i>DCAF6</i>	0,37	6,02E-06	0,75	1,42E-22
ENSG00000197535	<i>MYO5A</i>	0,83	1,60E-08	1,35	5,23E-22
ENSG00000118137	<i>APOA1</i>	1,13	1,18E-42	0,80	7,72E-22
ENSG00000174358	<i>SLC6A19</i>	2,17	8,98E-34	1,74	1,96E-21
ENSG00000119471	<i>HSDL2</i>	0,35	1,97E-04	0,83	2,01E-21
ENSG00000171560	<i>FGA</i>	0,71	6,91E-14	0,89	2,99E-21
ENSG00000026950	<i>BTN3A1</i>	0,44	8,31E-04	1,12	3,02E-21
ENSG00000130779	<i>CLIP1</i>	0,53	7,40E-09	0,84	4,62E-21
ENSG00000111058	<i>ACSS3</i>	0,58	2,05E-08	0,93	1,21E-20
ENSG00000072364	<i>AFF4</i>	0,75	2,60E-23	0,71	1,56E-20
ENSG00000198420	<i>FAM115A</i>	0,40	2,87E-06	0,75	1,57E-20
ENSG00000140465	<i>CYP1A1</i>	1,39	1,49E-47	0,90	2,60E-20
ENSG00000131242	<i>RAB11FIP4</i>	0,72	8,94E-15	0,84	3,42E-20
ENSG00000149742	<i>SLC22A9</i>	0,96	7,65E-12	1,26	5,55E-20
ENSG00000134283	<i>PPHLN1</i>	0,75	1,14E-23	0,68	1,13E-19
ENSG00000118271	<i>TTR</i>	2,05	1,06E-113	0,86	1,42E-19
ENSG00000115652	<i>UXS1</i>	0,27	2,76E-04	0,63	1,51E-19
ENSG00000126218	<i>F10</i>	1,15	1,72E-33	0,87	1,85E-19
ENSG00000106052	<i>TAX1BP1</i>	0,39	2,18E-06	0,72	2,21E-19
ENSG00000099937	<i>SERPIND1</i>	0,67	5,58E-11	0,91	2,45E-19
ENSG00000174684	<i>B3GNT1</i>	0,64	9,50E-15	0,74	2,84E-19
ENSG00000113905	<i>HRG</i>	1,90	1,10E-20	1,83	3,11E-19

ENSG00000188488	<i>SERPINA5</i>	0,84	1,96E-08	1,31	3,33E-19
ENSG00000087502	<i>ERGIC2</i>	0,87	6,18E-13	1,06	3,84E-19
ENSG00000071127	<i>WDR1</i>	0,35	4,33E-07	0,60	5,69E-19
ENSG00000132824	<i>SERINC3</i>	0,21	7,93E-03	0,64	6,12E-19
ENSG00000163631	<i>ALB</i>	0,97	2,04E-34	0,71	6,87E-19
ENSG00000139344	<i>AMDHD1</i>	0,76	8,47E-07	1,29	8,50E-19
ENSG00000166311	<i>SMPD1</i>	1,03	2,64E-21	0,96	1,50E-18
ENSG00000108828	<i>VAT1</i>	0,79	3,14E-26	0,66	2,51E-18
ENSG00000133131	<i>MORC4</i>	0,58	6,87E-08	0,91	3,89E-18
ENSG00000163624	<i>CDS1</i>	2,26	1,34E-36	1,60	4,39E-18
ENSG00000119125	<i>GDA</i>	1,18	4,34E-15	1,29	4,78E-18
ENSG00000164124	<i>TMEM144</i>	1,25	1,72E-18	1,22	8,99E-18
ENSG00000106927	<i>AMBP</i>	0,88	1,43E-53	0,50	1,02E-17
ENSG00000004897	<i>CDC27</i>	0,53	1,90E-10	0,70	1,18E-17
ENSG00000165801	<i>FLJ10357</i>	0,69	5,93E-08	1,04	2,33E-17
ENSG00000106351	<i>AGFG2</i>	0,64	9,34E-10	0,86	4,03E-17
ENSG00000121578	<i>B4GALT4</i>	0,43	7,40E-04	0,98	6,56E-17
ENSG00000243147	<i>MRPL33</i>	0,66	1,71E-05	1,21	7,04E-17
ENSG00000150991	<i>UBC</i>	0,34	8,88E-06	0,62	7,49E-17
ENSG00000088386	<i>SLC15A1</i>	1,17	2,88E-14	1,27	7,59E-17
ENSG00000125629	<i>INSIG2</i>	1,06	2,42E-23	0,90	9,61E-17
ENSG00000204439	<i>C6ORF47</i>	0,60	1,06E-03	1,39	1,18E-16
ENSG00000013583	<i>HEBP1</i>	1,58	1,18E-26	1,24	1,42E-16
ENSG00000111452	<i>GPR133</i>	1,75	3,81E-29	1,31	1,99E-16
ENSG00000143622	<i>RIT1</i>	0,68	8,08E-08	1,00	1,99E-16
ENSG00000004961	<i>HCCS</i>	0,66	3,31E-06	1,11	2,29E-16
ENSG00000039068	<i>CDH1</i>	1,29	6,53E-36	0,87	3,60E-16
ENSG00000112893	<i>MAN2A1</i>	1,11	1,35E-35	0,74	5,14E-16
ENSG00000234127	<i>TRIM26</i>	0,53	1,76E-09	0,69	6,47E-16
ENSG00000142166	<i>IFNAR1</i>	0,61	2,84E-12	0,70	7,99E-16
ENSG00000106789	<i>CORO2A</i>	0,98	2,27E-19	0,88	9,79E-16
ENSG00000165943	<i>MOAP1</i>	0,51	2,41E-04	1,04	1,04E-15

ENSG00000143819	<i>EPHX1</i>	1,28	1,38E-40	0,79	1,24E-15
ENSG00000166035	<i>LIPC</i>	0,83	2,82E-12	0,94	1,86E-15
ENSG00000116977	<i>LGALS8</i>	0,58	2,77E-08	0,81	2,09E-15
ENSG00000149212	<i>SESN3</i>	1,06	3,90E-20	0,91	3,39E-15
ENSG00000196502	<i>SULT1A1</i>	0,80	1,47E-08	1,08	3,40E-15
ENSG00000120697	<i>ALG5</i>	0,92	4,30E-09	1,19	3,47E-15
ENSG00000130005	<i>GAMT</i>	1,01	8,48E-22	0,84	3,66E-15
ENSG00000128335	<i>APOL2</i>	1,22	1,44E-22	0,99	3,88E-15
ENSG00000153066	<i>TXNDC11</i>	0,99	2,54E-21	0,83	4,28E-15
ENSG00000182919	<i>C11ORF54</i>	0,53	3,87E-05	0,95	4,63E-15
ENSG00000074527	<i>NTN4</i>	0,65	2,69E-04	1,30	4,73E-15
ENSG00000120948	<i>TARDBP</i>	0,21	9,33E-03	0,57	5,29E-15
ENSG00000155640	<i>C10ORF12</i>	0,83	2,80E-06	1,32	6,03E-15
ENSG00000146233	<i>CYP39A1</i>	1,00	1,07E-05	1,68	6,21E-15
ENSG00000174238	<i>PITPNA</i>	0,61	3,73E-09	0,79	6,31E-15
ENSG00000204525	<i>HLA-B</i>	0,92	3,65E-22	0,75	1,05E-14
ENSG00000006576	<i>PHTF2</i>	0,65	1,98E-13	0,69	1,18E-14
ENSG00000145217	<i>SLC26A1</i>	1,14	2,19E-15	1,11	1,21E-14
ENSG00000170522	<i>ELOVL6</i>	0,60	5,04E-07	0,89	1,42E-14
ENSG00000132437	<i>DDC</i>	1,83	4,35E-28	1,32	1,45E-14
ENSG00000072778	<i>ACADVL</i>	0,42	1,07E-06	0,65	1,45E-14
ENSG00000153214	<i>TMEM87B</i>	0,57	5,21E-07	0,85	1,63E-14
ENSG00000135378	<i>PRRG4</i>	2,09	2,02E-29	1,46	2,11E-14
ENSG00000111052	<i>LIN7A</i>	0,75	7,53E-16	0,71	3,33E-14
ENSG00000128311	<i>TST</i>	0,82	1,05E-11	0,90	4,32E-14
ENSG00000172239	<i>LOC645139</i>	0,71	1,27E-13	0,72	4,91E-14
ENSG00000173193	<i>PARP14</i>	0,98	6,67E-20	0,81	6,40E-14
ENSG00000100612	<i>DHRS7</i>	1,10	1,64E-27	0,77	1,01E-13
ENSG00000234745	<i>HLA-B</i>	0,62	2,98E-08	0,82	1,02E-13
ENSG00000124120	<i>TTPAL</i>	0,42	2,99E-04	0,82	1,03E-13
ENSG00000180198	<i>RCC1</i>	0,40	1,69E-05	0,67	1,58E-13
ENSG00000006611	<i>USH1C</i>	1,41	4,57E-11	1,56	1,82E-13

ENSG00000121380	<i>BCL2L14</i>	0,69	8,93E-03	1,72	1,94E-13
ENSG00000204128	<i>C2ORF72</i>	0,85	1,55E-20	0,68	1,98E-13
ENSG00000106780	<i>MEGF9</i>	0,60	6,53E-10	0,70	2,10E-13
ENSG00000088340	<i>FER1L4</i>	1,77	4,20E-10	2,04	2,45E-13
ENSG00000106538	<i>RARRES2</i>	1,02	6,84E-16	0,94	2,45E-13
ENSG00000029364	<i>SLC39A9</i>	0,61	2,06E-13	0,61	2,73E-13
ENSG00000166483	<i>WEE1</i>	0,46	5,35E-07	0,64	3,09E-13
ENSG00000110169	<i>HPX</i>	1,87	1,92E-88	0,72	3,49E-13
ENSG00000005469	<i>CROT</i>	1,49	4,87E-38	0,87	4,47E-13
ENSG00000121741	<i>ZMYM2</i>	0,27	2,81E-03	0,60	7,05E-13
ENSG00000206503	<i>HLA-A</i>	0,87	3,53E-24	0,63	7,15E-13
ENSG00000111358	<i>GTF2H3</i>	0,35	2,95E-03	0,77	7,70E-13
ENSG00000133135	<i>RNF128</i>	0,96	5,87E-15	0,88	8,03E-13
ENSG00000214530	<i>STARD10</i>	0,95	4,81E-16	0,85	9,29E-13
ENSG00000135744	<i>AGT</i>	0,51	7,22E-09	0,63	1,05E-12
ENSG00000064687	<i>ABCA7</i>	1,30	1,83E-19	1,04	1,19E-12
ENSG00000104371	<i>DKK4</i>	1,94	4,90E-08	2,48	1,32E-12
ENSG00000256162	<i>SMLR1</i>	0,81	5,06E-06	1,21	1,44E-12
ENSG00000164506	<i>STXBP5</i>	0,61	9,83E-06	0,93	1,78E-12
ENSG00000197324	<i>LRP10</i>	0,71	1,50E-17	0,59	2,10E-12
ENSG00000145476	<i>CYP4V2</i>	1,28	1,71E-20	0,99	2,14E-12
ENSG00000169439	<i>SDC2</i>	0,52	1,51E-13	0,49	2,55E-12
ENSG00000196083	<i>IL1RAP</i>	1,28	1,33E-50	0,62	3,14E-12
ENSG00000160145	<i>KALRN</i>	0,61	8,19E-03	1,44	3,38E-12
ENSG00000170445	<i>HARS</i>	0,40	4,09E-04	0,75	3,42E-12
ENSG00000152556	<i>PFKM</i>	0,65	1,20E-04	1,11	3,99E-12
ENSG00000143278	<i>F13B</i>	1,17	7,61E-07	1,58	5,52E-12
ENSG00000109193	<i>SULT1E1</i>	0,85	6,93E-04	1,60	7,03E-12
ENSG00000113924	<i>HGD</i>	0,71	2,46E-14	0,63	1,06E-11
ENSG00000182327	<i>GLTPD2</i>	0,40	7,95E-03	0,94	1,06E-11
ENSG00000019582	<i>CD74</i>	0,97	2,00E-11	0,99	1,09E-11
ENSG00000135617	<i>C2ORF7</i>	0,99	2,75E-13	0,92	1,15E-11

ENSG00000158109	<i>TPRG1L</i>	0,78	7,23E-13	0,74	1,18E-11
ENSG00000198964	<i>SGMS1</i>	1,33	1,17E-32	0,79	1,22E-11
ENSG00000153130	<i>SCOC</i>	0,80	5,87E-14	0,73	1,42E-11
ENSG00000122870	<i>BICC1</i>	0,78	1,04E-20	0,57	1,78E-11
ENSG00000177628	<i>GBA</i>	0,67	2,27E-12	0,64	2,08E-11
ENSG00000116906	<i>GNPAT</i>	0,31	5,46E-04	0,56	2,73E-11
ENSG00000068308	<i>OTUD5</i>	0,55	5,78E-06	0,78	2,84E-11
ENSG00000140612	<i>SEC11A</i>	0,80	2,37E-20	0,59	2,86E-11
ENSG00000140391	<i>TSPAN3</i>	0,27	5,06E-04	0,49	3,47E-11
ENSG00000182718	<i>ANXA2</i>	0,25	3,38E-04	0,45	4,21E-11
ENSG00000108950	<i>FAM20A</i>	1,62	2,52E-11	1,60	4,25E-11
ENSG00000141034	<i>C17ORF39</i>	1,14	3,17E-10	1,19	4,41E-11
ENSG00000164342	<i>TLR3</i>	0,96	1,35E-04	1,57	4,98E-11
ENSG00000091129	<i>NRCAM</i>	0,63	2,17E-06	0,85	5,00E-11
ENSG00000092841	<i>MYL6</i>	0,46	3,82E-08	0,54	6,00E-11
ENSG00000144118	<i>RALB</i>	0,68	1,11E-09	0,73	6,36E-11
ENSG00000177697	<i>CD151</i>	0,78	1,47E-15	0,64	7,42E-11
ENSG00000163516	<i>ANKZF1</i>	0,43	3,90E-03	0,90	7,71E-11
ENSG00000130988	<i>RGN</i>	1,69	8,60E-23	1,16	8,86E-11
ENSG00000105135	<i>ILVBL</i>	0,50	6,62E-07	0,64	9,61E-11
ENSG00000197885	<i>NKIRAS1</i>	0,98	8,67E-08	1,16	1,12E-10
ENSG00000113583	<i>C5ORF15</i>	0,76	1,35E-10	0,76	1,45E-10
ENSG00000112304	<i>ACOT13</i>	0,47	2,38E-06	0,62	1,58E-10
ENSG00000187134	<i>AKR1C1</i>	1,02	3,57E-24	0,66	1,75E-10
ENSG00000113494	<i>PRLR</i>	0,90	1,21E-08	1,00	1,79E-10
ENSG00000183020	<i>AP2A2</i>	0,33	6,96E-04	0,59	1,84E-10
ENSG00000125148	<i>MT2A</i>	1,17	5,66E-19	0,86	2,00E-10
ENSG00000116678	<i>LEPR</i>	0,71	3,32E-07	0,86	2,05E-10
ENSG00000197956	<i>S100A6</i>	1,40	7,19E-36	0,74	2,06E-10
ENSG00000110171	<i>TRIM3</i>	1,75	5,77E-29	1,04	2,10E-10
ENSG00000103034	<i>NDRG4</i>	1,68	1,07E-24	1,08	2,23E-10
ENSG00000162341	<i>TPCN2</i>	0,33	9,15E-03	0,74	2,35E-10

ENSG00000178537	<i>SLC25A20</i>	1,17	2,61E-21	0,81	2,48E-10
ENSG00000197780	<i>TAF13</i>	0,58	3,89E-06	0,77	2,67E-10
ENSG00000145703	<i>IQGAP2</i>	0,56	1,55E-07	0,66	3,46E-10
ENSG00000118515	<i>SGK1</i>	1,03	2,90E-16	0,81	3,74E-10
ENSG00000100234	<i>TIMP3</i>	0,42	2,80E-03	0,82	4,32E-10
ENSG00000130958	<i>SLC35D2</i>	0,25	6,00E-03	0,52	4,32E-10
ENSG00000165775	<i>FUNDC2</i>	0,98	4,30E-22	0,65	4,57E-10
ENSG00000065833	<i>ME1</i>	0,86	7,06E-24	0,55	5,97E-10
ENSG00000012822	<i>CALCOCO1</i>	1,04	3,53E-10	1,03	6,35E-10
ENSG00000076321	<i>KLHL20</i>	0,85	8,15E-11	0,81	6,65E-10
ENSG00000148218	<i>ALAD</i>	1,10	1,40E-25	0,67	8,93E-10
ENSG00000118418	<i>HMGN3</i>	0,28	1,95E-03	0,52	1,24E-09
ENSG00000108846	<i>ABCC3</i>	0,43	5,28E-04	0,72	1,52E-09
ENSG00000095383	<i>TBC1D2</i>	1,39	2,53E-10	1,33	1,54E-09
ENSG00000075945	<i>KIFAP3</i>	0,89	2,13E-14	0,71	1,66E-09
ENSG00000050165	<i>DKK3</i>	1,02	9,74E-14	0,84	1,66E-09
ENSG00000104044	<i>OCA2</i>	1,26	2,97E-10	1,21	1,73E-09
ENSG00000170873	<i>MTSS1</i>	0,80	3,97E-08	0,87	1,99E-09
ENSG00000142156	<i>COL6A1</i>	1,06	4,21E-13	0,89	2,05E-09
ENSG00000055211	<i>C6ORF72</i>	0,87	5,35E-09	0,89	2,15E-09
ENSG00000111110	<i>PPM1H</i>	0,66	1,00E-07	0,73	2,15E-09
ENSG00000006327	<i>TNFRSF12A</i>	0,48	3,84E-07	0,56	2,55E-09
ENSG00000198074	<i>AKR1B10</i>	1,03	1,66E-06	1,25	3,40E-09
ENSG00000151690	<i>MFSD6</i>	0,77	1,03E-10	0,70	3,64E-09
ENSG00000129566	<i>TEP1</i>	0,40	1,58E-03	0,70	4,02E-09
ENSG00000111801	<i>BTN3A3</i>	0,55	2,02E-03	0,98	4,15E-09
ENSG00000148702	<i>HABP2</i>	1,80	5,46E-25	1,07	4,16E-09
ENSG00000130598	<i>TNNI2</i>	1,55	6,76E-07	1,78	6,73E-09
ENSG00000204634	<i>TBC1D8</i>	0,40	1,60E-04	0,59	6,79E-09
ENSG00000128591	<i>FLNC</i>	1,19	3,66E-53	0,47	6,89E-09
ENSG00000142227	<i>EMP3</i>	1,03	1,91E-06	1,23	6,96E-09
ENSG00000063854	<i>HAGH</i>	0,63	1,06E-04	0,90	7,48E-09

ENSG00000139641	<i>ESYT1</i>	0,33	1,31E-04	0,49	7,63E-09
ENSG00000178074	<i>C2ORF69</i>	0,76	8,08E-08	0,81	7,84E-09
ENSG00000136935	<i>GOLGA1</i>	0,63	1,46E-07	0,68	7,87E-09
ENSG00000204308	<i>RNF5</i>	0,36	1,56E-04	0,52	8,36E-09
ENSG00000197448	<i>GSTK1</i>	0,88	2,49E-15	0,66	9,32E-09
ENSG00000106823	<i>ECM2</i>	1,89	2,70E-08	1,94	1,07E-08
ENSG00000175854	<i>C9ORF119</i>	0,74	1,57E-07	0,80	1,20E-08
ENSG00000163072	<i>NOSTRIN</i>	0,68	3,46E-06	0,82	1,25E-08
ENSG00000102024	<i>PLS3</i>	0,68	5,04E-17	0,47	1,31E-08
ENSG00000198246	<i>SLC29A3</i>	0,39	2,65E-03	0,70	1,33E-08
ENSG00000132329	<i>RAMP1</i>	2,76	1,48E-30	1,46	1,36E-08
ENSG00000119638	<i>NEK9</i>	0,48	4,72E-08	0,50	1,51E-08
ENSG00000163644	<i>PPM1K</i>	0,66	3,31E-03	1,18	1,58E-08
ENSG00000131941	<i>RHPN2</i>	0,58	7,30E-06	0,72	1,64E-08
ENSG00000137171	<i>KLC4</i>	1,14	1,28E-13	0,89	1,66E-08
ENSG00000136068	<i>FLNB</i>	0,44	4,09E-10	0,40	1,75E-08
ENSG00000152056	<i>AP1S3</i>	0,84	2,15E-10	0,75	1,81E-08
ENSG00000110628	<i>SLC22A18</i>	2,00	7,51E-33	1,00	1,90E-08
ENSG00000018236	<i>CNTN1</i>	0,85	3,11E-03	1,50	1,90E-08
ENSG00000154229	<i>PRKCA</i>	0,52	8,28E-08	0,54	2,01E-08
ENSG00000101076	<i>HNF4A</i>	0,30	2,71E-04	0,44	2,01E-08
ENSG00000138207	<i>RBP4</i>	0,70	1,05E-19	0,44	2,02E-08
ENSG00000112818	<i>MEP1A</i>	2,52	3,71E-84	0,79	2,25E-08
ENSG00000186470	<i>BTN3A2</i>	0,62	9,08E-07	0,69	2,42E-08
ENSG00000181274	<i>FRAT2</i>	1,33	4,24E-23	0,78	2,60E-08
ENSG00000172070	<i>SRXN1</i>	1,75	3,04E-21	1,08	2,73E-08
ENSG00000196116	<i>TDRD7</i>	0,53	4,92E-05	0,70	2,73E-08
ENSG00000160870	<i>CYP3A7</i>	1,81	1,76E-11	1,52	2,74E-08
ENSG00000213759	<i>UGT2B11</i>	3,80	1,81E-101	1,10	3,17E-08
ENSG00000134962	<i>KLB</i>	0,45	6,21E-09	0,44	3,35E-08
ENSG00000116675	<i>DNAJC6</i>	1,61	4,04E-09	1,52	3,42E-08
ENSG00000167123	<i>CERCAM</i>	0,92	3,85E-08	0,92	4,47E-08

ENSG00000109854	<i>HTATIP2</i>	0,66	9,89E-13	0,52	4,84E-08
ENSG00000163050	<i>CABC1</i>	0,48	1,32E-05	0,58	5,79E-08
ENSG00000135404	<i>CD63</i>	0,41	1,20E-08	0,40	6,09E-08
ENSG00000136810	<i>TXN</i>	0,29	1,90E-03	0,48	6,57E-08
ENSG00000135916	<i>ITM2C</i>	0,46	2,16E-06	0,53	6,72E-08
ENSG00000161011	<i>SQSTM1</i>	1,09	1,49E-63	0,37	7,04E-08
ENSG00000167601	<i>AXL</i>	1,49	7,22E-07	1,61	7,53E-08
ENSG00000142494	<i>SLC47A1</i>	0,51	1,47E-04	0,70	7,58E-08
ENSG00000151135	<i>C12ORF23</i>	0,33	6,79E-04	0,51	9,03E-08
ENSG00000077254	<i>USP33</i>	0,60	1,38E-06	0,66	9,05E-08
ENSG00000159348	<i>CYB5R1</i>	0,85	1,19E-16	0,57	9,55E-08
ENSG00000213465	<i>ARL2</i>	0,77	6,26E-11	0,64	1,02E-07
ENSG00000196372	<i>ASB13</i>	0,67	1,33E-05	0,80	1,02E-07
ENSG00000250722	<i>SEPP1</i>	0,60	2,48E-11	0,49	1,05E-07
ENSG00000163975	<i>MFI2</i>	1,48	2,17E-28	0,75	1,05E-07
ENSG00000187546	<i>TMEM195</i>	0,58	2,23E-07	0,60	1,10E-07
ENSG00000160551	<i>TAOK1</i>	0,44	7,09E-08	0,44	1,11E-07
ENSG00000106868	<i>SUSD1</i>	0,38	6,52E-03	0,69	1,17E-07
ENSG00000032444	<i>PNPLA6</i>	0,46	1,03E-04	0,60	1,32E-07
ENSG00000185813	<i>PCYT2</i>	0,24	9,68E-03	0,45	1,56E-07
ENSG00000120860	<i>CCDC53</i>	0,99	1,09E-06	1,06	1,57E-07
ENSG00000171714	<i>ANO5</i>	0,56	2,78E-04	0,77	1,62E-07
ENSG00000113597	<i>C5ORF44</i>	0,51	9,54E-04	0,77	1,62E-07
ENSG00000104812	<i>GYS1</i>	0,38	1,50E-03	0,60	1,71E-07
ENSG00000143434	<i>SEMA6C</i>	1,01	8,34E-07	1,07	1,73E-07
ENSG00000174749	<i>C4ORF32</i>	0,83	2,10E-05	1,00	1,78E-07
ENSG00000042445	<i>RETSAT</i>	1,00	2,55E-18	0,62	1,81E-07
ENSG00000157613	<i>CREB3L1</i>	1,00	3,30E-06	1,10	1,98E-07
ENSG00000132581	<i>SDF2</i>	0,34	1,35E-03	0,53	2,12E-07
ENSG00000185787	<i>MORF4</i>	0,35	1,17E-07	0,35	2,14E-07
ENSG00000112308	<i>C6ORF62</i>	0,29	3,52E-04	0,41	2,37E-07
ENSG00000105852	<i>PON3</i>	0,50	1,84E-03	0,78	2,51E-07

ENSG00000189171	<i>S100A13</i>	0,72	5,89E-10	0,61	2,91E-07
ENSG00000002586	<i>CD99</i>	0,68	9,53E-08	0,66	3,19E-07
ENSG00000139324	<i>TMTC3</i>	0,89	1,57E-16	0,57	3,37E-07
ENSG00000140961	<i>OSGIN1</i>	1,62	1,15E-28	0,80	3,37E-07
ENSG00000172296	<i>SPTLC3</i>	1,08	3,88E-05	1,31	3,64E-07
ENSG00000104765	<i>BNIP3L</i>	0,43	7,76E-04	0,62	3,87E-07
ENSG00000146904	<i>EPHA1</i>	1,77	1,88E-19	1,05	3,93E-07
ENSG00000107854	<i>TNKS2</i>	0,57	4,31E-10	0,47	4,01E-07
ENSG00000170456	<i>DENND5B</i>	0,40	1,59E-03	0,62	4,01E-07
ENSG00000084754	<i>HADHA</i>	0,23	3,12E-03	0,38	4,38E-07
ENSG00000095321	<i>CRAT</i>	0,69	3,56E-08	0,64	4,46E-07
ENSG00000143158	<i>BRP44</i>	0,50	6,26E-11	0,39	4,73E-07
ENSG00000143198	<i>MGST3</i>	0,89	4,50E-16	0,57	4,88E-07
ENSG00000177565	<i>TBL1XR1</i>	1,27	1,96E-64	0,40	5,97E-07
ENSG00000117984	<i>CTSD</i>	0,84	8,01E-20	0,48	6,10E-07
ENSG00000147257	<i>GPC3</i>	0,69	5,05E-23	0,37	6,46E-07
ENSG00000122786	<i>CALD1</i>	0,45	3,10E-07	0,44	6,56E-07
ENSG00000205213	<i>LGR4</i>	0,46	1,05E-09	0,38	6,64E-07
ENSG00000189180	<i>ZNF33A</i>	0,65	2,19E-06	0,68	6,93E-07
ENSG00000120885	<i>CLU</i>	1,16	3,69E-58	0,38	7,82E-07
ENSG00000133943	<i>C14ORF159</i>	1,39	9,30E-11	1,09	8,03E-07
ENSG00000151893	<i>C10ORF46</i>	0,58	2,94E-07	0,56	8,13E-07
ENSG00000076555	<i>ACACB</i>	1,07	2,14E-09	0,90	8,14E-07
ENSG00000166387	<i>PPFIBP2</i>	0,43	5,11E-03	0,71	8,14E-07
ENSG00000113790	<i>EHHADH</i>	1,04	1,22E-17	0,62	8,77E-07
ENSG00000175470	<i>PPP2R2D</i>	0,64	8,87E-05	0,78	8,93E-07
ENSG00000112378	<i>PERP</i>	0,45	9,65E-10	0,37	9,16E-07
ENSG00000125967	<i>NECAB3</i>	0,71	6,78E-08	0,65	9,29E-07
ENSG00000158516	<i>CPA2</i>	2,44	1,13E-28	1,16	9,73E-07
ENSG00000099139	<i>PCSK5</i>	0,93	1,57E-16	0,57	9,81E-07
ENSG00000114812	<i>VIPR1</i>	1,30	3,97E-04	1,75	1,00E-06
ENSG00000171105	<i>INSR</i>	0,49	1,12E-08	0,43	1,00E-06

ENSG00000196693	<i>ZNF33B</i>	0,82	1,66E-06	0,83	1,10E-06
ENSG00000155366	<i>RHOC</i>	0,63	3,43E-08	0,57	1,13E-06
ENSG00000170899	<i>GSTA4</i>	1,01	1,53E-12	0,72	1,17E-06
ENSG00000167972	<i>ABCA3</i>	0,53	7,42E-05	0,64	1,22E-06
ENSG00000115425	<i>PECR</i>	0,58	4,13E-06	0,61	1,23E-06
ENSG00000160584	<i>SIK3</i>	0,43	5,07E-05	0,51	1,28E-06
ENSG00000150687	<i>PRSS23</i>	0,38	1,60E-05	0,42	1,29E-06
ENSG00000185339	<i>TCN2</i>	0,60	1,53E-03	0,88	1,32E-06
ENSG00000165813	<i>C10ORF118</i>	0,83	3,30E-08	0,73	1,33E-06
ENSG00000123146	<i>CD97</i>	0,69	9,63E-08	0,63	1,44E-06
ENSG00000101290	<i>CDS2</i>	1,14	2,78E-28	0,53	1,74E-06
ENSG00000116729	<i>WLS</i>	0,45	3,21E-04	0,58	1,83E-06
ENSG00000203697	<i>CAPN8</i>	2,29	4,62E-11	1,72	1,83E-06
ENSG00000184117	<i>NIPSNAP1</i>	0,37	1,72E-05	0,40	1,91E-06
ENSG00000197165	<i>SULT1A2</i>	0,94	2,15E-07	0,88	1,95E-06
ENSG00000102931	<i>ARL2BP</i>	1,74	3,67E-22	0,92	1,97E-06
ENSG00000204899	<i>C13ORF37</i>	1,13	1,11E-09	0,91	2,23E-06
ENSG00000115297	<i>TLX2</i>	1,13	5,25E-04	1,50	2,25E-06
ENSG00000183134	<i>GPR44</i>	1,24	3,50E-05	1,41	2,27E-06
ENSG00000099834	<i>CDHR5</i>	2,74	1,88E-64	0,84	2,29E-06
ENSG00000180667	<i>YOD1</i>	0,71	1,09E-14	0,45	2,56E-06
ENSG00000042286	<i>AIFM2</i>	0,64	3,31E-10	0,49	2,66E-06
ENSG00000185432	<i>METTL7A</i>	1,31	1,15E-26	0,61	2,76E-06
ENSG00000156521	<i>TYSND1</i>	0,54	2,78E-03	0,80	3,00E-06
ENSG00000058866	<i>DGKG</i>	1,23	2,26E-04	1,52	3,02E-06
ENSG00000204592	<i>HLA-E</i>	0,51	2,32E-08	0,44	3,04E-06
ENSG00000115839	<i>RAB3GAP1</i>	0,41	4,64E-07	0,39	3,05E-06
ENSG00000170412	<i>GPRC5C</i>	0,30	3,91E-03	0,46	3,07E-06
ENSG00000095209	<i>TMEM38B</i>	0,73	1,54E-08	0,61	3,26E-06
ENSG00000100934	<i>SEC23A</i>	0,26	2,78E-03	0,39	3,31E-06
ENSG00000164237	<i>CMBL</i>	1,29	1,69E-12	0,88	3,49E-06
ENSG00000130066	<i>SAT1</i>	0,53	1,13E-06	0,51	3,52E-06

ENSG00000079112	<i>CDH17</i>	2,24	1,01E-17	1,29	3,57E-06
ENSG00000110717	<i>NDUFS8</i>	0,31	9,73E-04	0,42	3,72E-06
ENSG00000106976	<i>DNM1</i>	1,51	5,91E-14	0,97	3,91E-06
ENSG00000081026	<i>MAGI3</i>	0,84	7,22E-13	0,56	4,03E-06
ENSG00000143545	<i>LOC100131294</i>	0,38	1,12E-03	0,52	4,08E-06
ENSG00000121848	<i>RNF115</i>	0,36	2,61E-05	0,40	4,13E-06
ENSG00000117280	<i>RAB7L1</i>	0,70	5,73E-12	0,49	4,28E-06
ENSG00000144566	<i>RAB5A</i>	0,42	4,28E-05	0,46	4,35E-06
ENSG00000131981	<i>LGALS3</i>	0,92	6,06E-09	0,74	4,66E-06
ENSG00000121858	<i>TNFSF10</i>	1,60	3,53E-09	1,27	4,94E-06
ENSG00000188186	<i>C7ORF59</i>	0,69	1,16E-06	0,65	5,07E-06
ENSG00000255468	<i>RP11-867G23.8</i>	1,11	6,39E-10	0,85	5,14E-06
ENSG00000177239	<i>MAN1B1</i>	0,66	7,39E-14	0,42	5,28E-06
ENSG00000088387	<i>DOCK9</i>	0,39	1,93E-03	0,55	5,29E-06
ENSG00000070404	<i>FSTL3</i>	1,23	1,71E-36	0,48	5,38E-06
ENSG00000138688	<i>KIAA1109</i>	0,78	1,62E-15	0,47	5,54E-06
ENSG00000139329	<i>LUM</i>	0,69	2,41E-12	0,46	6,02E-06
ENSG00000130751	<i>NPAS1</i>	1,33	3,96E-09	1,04	7,02E-06
ENSG00000154556	<i>SORBS2</i>	1,50	2,59E-21	0,76	7,10E-06
ENSG00000242612	<i>DECR2</i>	0,58	2,47E-05	0,62	7,46E-06
ENSG00000157502	<i>MUM1L1</i>	0,92	6,02E-08	0,78	7,95E-06
ENSG00000079689	<i>SCGN</i>	1,18	1,93E-06	1,11	7,97E-06
ENSG00000154518	<i>ATP5G3</i>	0,22	8,85E-03	0,35	8,31E-06
ENSG00000104419	<i>NDRG1</i>	2,21	4,08E-87	0,54	9,58E-06
ENSG00000154265	<i>ABCA5</i>	1,11	2,58E-19	0,58	9,68E-06
ENSG00000140297	<i>GCNT3</i>	2,49	1,16E-32	1,02	9,82E-06
ENSG00000094631	<i>HDAC6</i>	0,71	7,94E-09	0,56	9,93E-06
ENSG00000221963	<i>APOL6</i>	0,67	2,47E-03	0,93	1,03E-05
ENSG00000108788	<i>MLX</i>	0,41	3,20E-05	0,44	1,06E-05
ENSG00000138794	<i>CASP6</i>	0,69	3,30E-06	0,66	1,08E-05
ENSG00000099994	<i>SUSD2</i>	1,23	3,18E-08	1,00	1,09E-05
ENSG00000166450	<i>PRTG</i>	0,95	4,08E-06	0,91	1,09E-05

ENSG00000107537	<i>PHYH</i>	0,63	2,23E-07	0,54	1,12E-05
ENSG00000179222	<i>MAGED1</i>	0,38	1,84E-05	0,39	1,12E-05
ENSG00000172594	<i>SMPDL3A</i>	0,98	5,77E-11	0,68	1,34E-05
ENSG00000141574	<i>SECTM1</i>	1,55	8,73E-31	0,64	1,34E-05
ENSG00000110013	<i>SIAE</i>	0,99	2,06E-07	0,84	1,35E-05
ENSG00000014641	<i>MDH1</i>	0,26	1,19E-03	0,34	1,35E-05
ENSG00000174282	<i>ZBTB4</i>	1,05	7,07E-26	0,47	1,36E-05
ENSG00000198689	<i>SLC9A6</i>	1,00	1,36E-10	0,70	1,37E-05
ENSG00000143669	<i>LYST</i>	1,14	1,62E-18	0,60	1,38E-05
ENSG00000158769	<i>F11R</i>	0,60	1,18E-14	0,35	1,45E-05
ENSG00000111816	<i>FRK</i>	1,31	2,82E-20	0,66	1,46E-05
ENSG00000167113	<i>COQ4</i>	0,66	1,82E-04	0,75	1,72E-05
ENSG00000163293	<i>NIPAL1</i>	1,22	1,03E-12	0,77	1,72E-05
ENSG00000159322	<i>ADPGK</i>	0,31	5,10E-03	0,46	1,74E-05
ENSG00000198610	<i>AKR1C4</i>	0,88	2,72E-03	1,21	1,76E-05
ENSG00000151715	<i>TMEM45B</i>	0,73	3,44E-03	1,03	1,97E-05
ENSG00000137831	<i>UACA</i>	1,42	6,73E-41	0,49	2,06E-05
ENSG00000183856	<i>IQGAP3</i>	0,39	7,42E-05	0,42	2,10E-05
ENSG00000104889	<i>RNASEH2A</i>	0,57	9,57E-07	0,50	2,22E-05
ENSG00000119431	<i>HDHD3</i>	0,78	3,74E-08	0,62	2,30E-05
ENSG00000184076	<i>UOCR10</i>	0,36	1,69E-03	0,47	2,32E-05
ENSG00000134452	<i>FBXO18</i>	0,47	1,04E-04	0,50	2,39E-05
ENSG00000169372	<i>CRADD</i>	0,60	2,75E-03	0,81	2,42E-05
ENSG00000110066	<i>SUV420H1</i>	0,28	1,44E-03	0,37	2,43E-05
ENSG00000155324	<i>GRAMD3</i>	0,76	3,18E-04	0,88	2,47E-05
ENSG00000198270	<i>TMEM116</i>	0,96	6,09E-08	0,77	2,64E-05
ENSG00000103415	<i>HMOX2</i>	0,46	1,88E-03	0,60	2,71E-05
ENSG00000134049	<i>IER3IP1</i>	0,77	4,17E-03	1,07	2,71E-05
ENSG00000102753	<i>KPNA3</i>	0,62	1,70E-08	0,47	2,72E-05
ENSG00000166801	<i>FAM111A</i>	0,60	8,77E-07	0,52	2,75E-05
ENSG00000123636	<i>BAZ2B</i>	0,62	1,65E-06	0,55	2,81E-05
ENSG00000117226	<i>GBP3</i>	1,36	9,21E-05	1,46	2,81E-05

ENSG00000090013	<i>BLVRB</i>	0,47	1,63E-03	0,60	2,82E-05
ENSG00000006025	<i>OSBPL7</i>	1,67	1,82E-09	1,21	2,90E-05
ENSG00000139263	<i>LRIG3</i>	0,31	3,85E-03	0,42	2,91E-05
ENSG00000176720	<i>BOK</i>	0,36	6,92E-03	0,53	2,93E-05
ENSG00000187097	<i>ENTPD5</i>	0,86	5,88E-22	0,40	3,02E-05
ENSG00000131171	<i>SH3BGRL</i>	0,56	6,43E-05	0,58	3,16E-05
ENSG00000113966	<i>ARL6</i>	1,24	6,11E-05	1,29	3,20E-05
ENSG00000172869	<i>DMXL1</i>	0,79	2,73E-12	0,49	3,34E-05
ENSG00000165434	<i>PGM2L1</i>	1,43	1,53E-18	0,72	3,54E-05
ENSG00000073910	<i>FRY</i>	0,44	1,37E-03	0,55	3,57E-05
ENSG00000143653	<i>SCCPDH</i>	0,79	4,54E-17	0,41	3,68E-05
ENSG00000164938	<i>TP53INP1</i>	0,50	1,24E-07	0,40	3,78E-05
ENSG00000006831	<i>ADIPOR2</i>	0,55	8,30E-15	0,31	3,95E-05
ENSG00000166710	<i>B2M</i>	0,20	4,28E-03	0,27	4,17E-05
ENSG00000134590	<i>FAM127A</i>	0,50	5,55E-04	0,59	4,29E-05
ENSG00000115216	<i>NRBP1</i>	0,42	8,96E-06	0,39	4,32E-05
ENSG00000123595	<i>RAB9A</i>	0,77	2,63E-05	0,75	4,34E-05
ENSG00000182326	<i>C1S</i>	0,90	5,10E-16	0,48	4,40E-05
ENSG00000172955	<i>ADH6</i>	0,78	2,03E-04	0,85	4,48E-05
ENSG00000154065	<i>ANKRD29</i>	1,21	1,84E-10	0,81	4,51E-05
ENSG00000185664	<i>SILV</i>	0,82	4,14E-03	1,11	4,57E-05
ENSG00000117450	<i>PRDX1</i>	0,29	6,74E-05	0,30	4,57E-05
ENSG00000116661	<i>FBXO2</i>	0,79	4,33E-05	0,79	4,59E-05
ENSG00000113595	<i>TRIM23</i>	0,95	1,19E-10	0,63	4,62E-05
ENSG00000104093	<i>DMXL2</i>	0,93	3,45E-18	0,47	4,64E-05
ENSG00000168528	<i>SERINC2</i>	0,90	8,38E-19	0,44	4,96E-05
ENSG00000137764	<i>MAP2K5</i>	0,72	7,56E-04	0,84	4,96E-05
ENSG00000100342	<i>APOL1</i>	1,62	4,99E-07	1,34	5,00E-05
ENSG00000145246	<i>ATP10D</i>	0,42	2,56E-04	0,46	5,07E-05
ENSG00000159403	<i>C1R</i>	0,86	3,94E-06	0,77	5,14E-05
ENSG00000133466	<i>C1QTNF6</i>	0,95	2,73E-07	0,77	5,24E-05
ENSG00000124788	<i>ATXN1</i>	0,68	8,68E-05	0,70	5,26E-05

ENSG00000113369	<i>ARRDC3</i>	1,20	4,40E-14	0,68	5,56E-05
ENSG00000140939	<i>NOL3</i>	0,95	2,23E-04	1,03	5,82E-05
ENSG00000132561	<i>MATN2</i>	2,03	7,47E-52	0,60	6,39E-05
ENSG00000111331	<i>OAS3</i>	0,68	1,60E-05	0,64	6,47E-05
ENSG00000102781	<i>KATNAL1</i>	0,77	3,59E-08	0,58	6,58E-05
ENSG00000063322	<i>MED29</i>	0,62	1,44E-07	0,49	6,60E-05
ENSG00000153291	<i>SLC25A27</i>	1,09	3,97E-04	1,22	6,92E-05
ENSG00000162852	<i>CNST</i>	1,08	2,16E-33	0,39	7,01E-05
ENSG00000215375	<i>MYL5</i>	1,19	3,83E-05	1,16	7,03E-05
ENSG00000119979	<i>FAM45A</i>	0,62	1,48E-05	0,57	7,92E-05
ENSG00000161249	<i>DMKN</i>	0,59	9,81E-05	0,60	8,20E-05
ENSG00000135454	<i>B4GALNT1</i>	0,51	7,90E-03	0,73	8,41E-05
ENSG00000146416	<i>AIG1</i>	1,01	3,56E-18	0,49	8,48E-05
ENSG00000172007	<i>RAB33B</i>	0,74	3,50E-06	0,64	8,94E-05
ENSG00000114745	<i>GORASP1</i>	0,42	3,48E-03	0,55	8,98E-05
ENSG00000108479	<i>GALK1</i>	1,29	6,23E-27	0,51	8,98E-05
ENSG00000125637	<i>PSD4</i>	0,70	1,42E-04	0,72	9,55E-05
ENSG00000151413	<i>NUBPL</i>	1,11	7,73E-10	0,74	9,81E-05
ENSG00000169814	<i>BTB</i>	0,78	3,30E-09	0,54	1,08E-04
ENSG00000148935	<i>GAS2</i>	0,60	1,82E-05	0,55	1,09E-04
ENSG00000013288	<i>MAN2B2</i>	0,55	1,28E-06	0,45	1,10E-04
ENSG00000124357	<i>NAGK</i>	0,94	1,67E-18	0,45	1,10E-04
ENSG00000135387	<i>CAPRIN1</i>	0,24	7,62E-04	0,27	1,12E-04
ENSG00000131781	<i>FMO5</i>	0,58	1,95E-03	0,71	1,14E-04
ENSG00000149792	<i>MRPL49</i>	0,47	1,30E-06	0,38	1,19E-04
ENSG00000171345	<i>KRT19</i>	0,36	3,54E-04	0,39	1,21E-04
ENSG00000114353	<i>GNAI2</i>	0,71	2,69E-14	0,38	1,23E-04
ENSG00000114999	<i>TTL</i>	0,52	1,56E-08	0,37	1,29E-04
ENSG00000139410	<i>SDSL</i>	0,66	2,87E-03	0,82	1,32E-04
ENSG00000134265	<i>NAPG</i>	0,40	2,57E-03	0,49	1,35E-04
ENSG00000103496	<i>STX4</i>	0,90	2,88E-10	0,57	1,36E-04
ENSG00000165169	<i>DYNLT3</i>	0,46	6,38E-04	0,51	1,36E-04

ENSG00000130714	<i>POMT1</i>	0,84	9,81E-13	0,47	1,40E-04
ENSG00000205423	<i>LOC100130176</i>	0,80	5,47E-05	0,77	1,41E-04
ENSG00000153666	<i>GOLGA9P</i>	1,52	1,16E-17	0,73	1,47E-04
ENSG00000161653	<i>NAGS</i>	1,45	3,40E-08	1,04	1,47E-04
ENSG00000161267	<i>BDH1</i>	2,71	6,38E-33	0,97	1,48E-04
ENSG00000110723	<i>EXPH5</i>	0,96	9,28E-05	0,93	1,50E-04
ENSG00000128016	<i>ZFP36</i>	0,61	6,28E-04	0,67	1,52E-04
ENSG00000116774	<i>OLFML3</i>	0,51	6,29E-08	0,37	1,52E-04
ENSG00000100258	<i>LMF2</i>	0,53	7,51E-09	0,36	1,54E-04
ENSG00000122884	<i>P4HA1</i>	0,50	9,83E-06	0,44	1,54E-04
ENSG00000131370	<i>SH3BP5</i>	1,40	3,75E-05	1,30	1,55E-04
ENSG00000197635	<i>DPP4</i>	0,60	1,79E-15	0,30	1,56E-04
ENSG00000183978	<i>CCDC56</i>	0,43	1,76E-05	0,38	1,58E-04
ENSG00000012174	<i>MBTPS2</i>	1,05	5,75E-22	0,45	1,59E-04
ENSG00000198189	<i>HSD17B11</i>	1,30	7,01E-65	0,32	1,64E-04
ENSG00000182902	<i>SLC25A18</i>	1,09	1,17E-03	1,24	1,83E-04
ENSG00000179163	<i>FUCA1</i>	0,89	1,63E-09	0,58	1,84E-04
ENSG00000233056	<i>ERVH48-1</i>	0,44	1,70E-04	0,44	1,84E-04
ENSG00000196268	<i>ZNF493</i>	1,01	6,19E-05	0,95	1,85E-04
ENSG00000092421	<i>SEMA6A</i>	0,59	1,28E-03	0,67	1,89E-04
ENSG00000149932	<i>TMEM219</i>	0,60	7,20E-07	0,47	1,96E-04
ENSG00000118564	<i>FBXL5</i>	0,61	1,16E-08	0,41	1,98E-04
ENSG00000136040	<i>PLXNC1</i>	0,48	2,88E-08	0,34	2,01E-04
ENSG00000128607	<i>KLHDC10</i>	0,75	1,25E-10	0,46	2,03E-04
ENSG00000119242	<i>CCDC92</i>	0,57	1,90E-03	0,67	2,04E-04
ENSG00000001561	<i>ENPP4</i>	0,54	7,76E-04	0,59	2,06E-04
ENSG00000118762	<i>PKD2</i>	0,58	7,88E-04	0,63	2,14E-04
ENSG00000136883	<i>KIF12</i>	1,03	3,29E-09	0,68	2,14E-04
ENSG00000160282	<i>FTCD</i>	0,55	3,89E-03	0,69	2,15E-04
ENSG00000106617	<i>PRKAG2</i>	0,66	5,52E-03	0,85	2,25E-04
ENSG00000099797	<i>TECR</i>	0,39	2,10E-03	0,46	2,29E-04
ENSG00000161203	<i>AP2M1</i>	0,27	5,53E-04	0,29	2,30E-04

ENSG00000120256	<i>LRP11</i>	0,98	5,36E-15	0,49	2,44E-04
ENSG00000139266	<i>MARCH9</i>	0,62	9,66E-03	0,85	2,49E-04
ENSG00000106078	<i>COBL</i>	0,33	3,20E-03	0,41	2,51E-04
ENSG00000066739	<i>ATG2B</i>	0,65	7,31E-09	0,43	2,52E-04
ENSG00000161533	<i>ACOX1</i>	0,84	6,40E-29	0,30	2,53E-04
ENSG00000166974	<i>MAPRE2</i>	0,48	4,13E-03	0,60	2,54E-04
ENSG00000119888	<i>EPCAM</i>	0,51	1,15E-12	0,28	2,58E-04
ENSG00000122861	<i>PLAU</i>	1,21	1,35E-04	1,17	2,71E-04
ENSG00000106333	<i>PCOLCE</i>	0,89	6,12E-05	0,82	2,76E-04
ENSG00000169762	<i>TAPT1</i>	0,64	2,46E-11	0,36	2,94E-04
ENSG00000001084	<i>GCLC</i>	0,73	6,00E-14	0,38	2,98E-04
ENSG00000004799	<i>PDK4</i>	1,79	5,37E-09	1,17	3,11E-04
ENSG00000117305	<i>HMGCL</i>	0,96	9,34E-18	0,44	3,13E-04
ENSG00000073605	<i>GSDMB</i>	0,60	4,06E-03	0,73	3,18E-04
ENSG00000152137	<i>HSPB8</i>	1,19	1,98E-24	0,46	3,27E-04
ENSG00000197444	<i>OGDHL</i>	0,85	7,46E-05	0,78	3,29E-04
ENSG00000185361	<i>TNFAIP8L1</i>	0,31	6,51E-03	0,39	3,30E-04
ENSG00000033327	<i>GAB2</i>	0,76	9,46E-07	0,58	3,30E-04
ENSG00000165410	<i>CFL2</i>	0,61	9,31E-11	0,35	3,35E-04
ENSG00000175984	<i>DENND2C</i>	1,36	1,00E-14	0,68	3,46E-04
ENSG00000137491	<i>SLCO2B1</i>	1,86	9,82E-43	0,55	3,51E-04
ENSG00000186654	<i>ARHGAP8</i>	1,65	2,02E-15	0,80	3,66E-04
ENSG00000178761	<i>C15ORF17</i>	0,41	2,98E-03	0,48	3,69E-04
ENSG00000097033	<i>SH3GLB1</i>	0,69	1,10E-16	0,32	3,76E-04
ENSG00000175265	<i>GOLGA8A</i>	0,88	2,10E-10	0,52	3,80E-04
ENSG00000179889	<i>PDXDC1</i>	0,23	2,48E-03	0,26	3,83E-04
ENSG00000115020	<i>PIKFYVE</i>	0,77	7,30E-14	0,39	4,17E-04
ENSG00000116005	<i>PCYOX1</i>	0,44	2,11E-08	0,29	4,18E-04
ENSG00000160789	<i>LMNA</i>	0,46	6,26E-09	0,29	4,42E-04
ENSG00000163328	<i>GPR155</i>	1,48	1,08E-11	0,82	4,47E-04
ENSG00000171307	<i>ZDHC16</i>	0,55	1,41E-05	0,46	4,53E-04
ENSG00000179454	<i>KLHL28</i>	0,83	7,66E-06	0,67	4,65E-04

ENSG00000125144	<i>MT1G</i>	1,59	5,79E-08	1,08	4,67E-04
ENSG00000182165	<i>TP53TG1</i>	0,67	4,88E-03	0,81	5,17E-04
ENSG00000127870	<i>RNF6</i>	0,35	7,76E-03	0,45	5,22E-04
ENSG00000178685	<i>PARP10</i>	1,02	2,53E-05	0,86	5,26E-04
ENSG00000128573	<i>FOXP2</i>	0,76	1,22E-04	0,69	5,49E-04
ENSG00000127995	<i>CASD1</i>	0,47	1,88E-04	0,44	5,57E-04
ENSG00000135637	<i>CCDC142</i>	0,65	2,01E-05	0,54	5,58E-04
ENSG00000171365	<i>CLCN5</i>	0,77	3,83E-15	0,36	5,65E-04
ENSG00000178104	<i>LOC100134230</i>	0,98	2,74E-25	0,35	5,71E-04
ENSG00000177732	<i>SOX12</i>	0,36	3,75E-03	0,41	5,90E-04
ENSG00000122912	<i>SLC25A16</i>	0,66	2,59E-04	0,63	5,92E-04
ENSG00000111666	<i>CHPT1</i>	0,60	9,21E-09	0,37	6,03E-04
ENSG00000186141	<i>POLR3C</i>	0,47	1,01E-06	0,34	6,16E-04
ENSG00000119950	<i>MXI1</i>	0,61	3,56E-03	0,70	6,16E-04
ENSG00000096092	<i>TMEM14A</i>	0,80	3,06E-11	0,44	6,40E-04
ENSG00000178038	<i>ALS2CL</i>	0,90	2,06E-04	0,84	6,46E-04
ENSG00000112874	<i>NUDT12</i>	0,52	4,45E-04	0,50	6,70E-04
ENSG00000118640	<i>VAMP8</i>	0,55	4,43E-07	0,39	6,71E-04
ENSG00000108443	<i>RPS6KB1</i>	0,41	3,04E-04	0,39	6,88E-04
ENSG00000166341	<i>DCHS1</i>	0,79	3,47E-05	0,66	6,95E-04
ENSG00000182179	<i>UBA7</i>	0,88	1,21E-03	0,92	7,21E-04
ENSG00000154153	<i>FAM134B</i>	1,05	1,11E-03	1,08	7,41E-04
ENSG00000157796	<i>WDR19</i>	0,43	1,41E-03	0,45	7,58E-04
ENSG00000083799	<i>CYLD</i>	0,55	8,15E-05	0,48	7,61E-04
ENSG00000156298	<i>TSPAN7</i>	1,01	1,17E-04	0,90	7,63E-04
ENSG00000137269	<i>LRRC1</i>	0,79	2,45E-12	0,41	7,69E-04
ENSG00000198954	<i>KIAA1279</i>	0,40	5,84E-03	0,47	8,14E-04
ENSG00000165915	<i>SLC39A13</i>	0,80	6,34E-09	0,48	8,19E-04
ENSG00000135407	<i>AVIL</i>	1,48	2,84E-06	1,10	8,41E-04
ENSG00000130829	<i>DUSP9</i>	1,19	7,98E-50	0,30	8,61E-04
ENSG00000163702	<i>IL17RC</i>	0,57	3,21E-05	0,47	8,82E-04
ENSG00000143322	<i>ABL2</i>	0,60	1,10E-07	0,39	8,90E-04

ENSG00000087086	<i>FTL</i>	0,68	4,37E-25	0,24	8,93E-04
ENSG00000164542	<i>KIAA0895</i>	0,41	8,93E-04	0,41	9,14E-04
ENSG00000231025	<i>RP11-175O19.4</i>	0,74	2,63E-03	0,81	9,27E-04
ENSG00000204389	<i>HSPA1A</i>	0,85	1,01E-14	0,39	9,50E-04
ENSG00000173221	<i>GLRX</i>	0,86	1,35E-04	0,76	9,67E-04
ENSG00000198408	<i>MGEA5</i>	0,29	7,88E-03	0,35	9,73E-04
ENSG00000124333	<i>VAMP7</i>	0,40	1,02E-03	0,40	9,73E-04
ENSG00000131018	<i>SYNE1</i>	0,98	1,40E-16	0,43	9,84E-04
ENSG00000161010	<i>C5ORF45</i>	0,83	4,12E-10	0,47	9,90E-04
ENSG00000067836	<i>ROGDI</i>	0,84	1,00E-04	0,73	9,90E-04
ENSG00000106070	<i>GRB10</i>	0,70	1,54E-11	0,37	1,00E-03
ENSG00000078018	<i>MAP2</i>	0,53	8,76E-03	0,65	1,04E-03
ENSG00000164684	<i>ZNF704</i>	0,71	9,30E-06	0,54	1,05E-03
ENSG00000134317	<i>GRHL1</i>	1,04	2,77E-09	0,61	1,05E-03
ENSG00000123843	<i>C4BPB</i>	1,32	2,93E-19	0,53	1,06E-03
ENSG00000140750	<i>ARHGAP17</i>	0,34	8,23E-03	0,41	1,07E-03
ENSG00000127824	<i>TUBA4A</i>	0,51	4,17E-04	0,48	1,09E-03
ENSG00000080815	<i>PSEN1</i>	0,50	1,44E-07	0,32	1,10E-03
ENSG00000010310	<i>GIPR</i>	1,55	4,23E-06	1,14	1,16E-03
ENSG00000145817	<i>YIPF5</i>	0,28	7,38E-03	0,33	1,16E-03
ENSG00000184674	<i>GSTT1</i>	0,58	3,07E-06	0,42	1,19E-03
ENSG00000168300	<i>PCMTD1</i>	0,65	1,42E-04	0,56	1,21E-03
ENSG00000169435	<i>RASSF6</i>	0,94	3,46E-03	1,03	1,21E-03
ENSG00000179532	<i>DNHD1</i>	0,73	4,99E-04	0,68	1,22E-03
ENSG00000006625	<i>GGCT</i>	0,42	3,49E-05	0,33	1,23E-03
ENSG00000163344	<i>PMVK</i>	1,05	1,32E-18	0,42	1,24E-03
ENSG00000023909	<i>GCLM</i>	0,62	1,04E-07	0,40	1,25E-03
ENSG00000123933	<i>MXD4</i>	0,80	4,88E-16	0,35	1,27E-03
ENSG00000215039	<i>CD27-AS1</i>	0,70	8,27E-03	0,83	1,28E-03
ENSG00000008869	<i>HEATR5B</i>	0,37	2,10E-03	0,39	1,30E-03
ENSG00000169629	<i>RGPD3</i>	1,03	7,91E-04	1,00	1,31E-03
ENSG00000132669	<i>RIN2</i>	1,29	1,64E-06	0,91	1,31E-03

ENSG00000166821	<i>PEX11A</i>	0,95	4,73E-05	0,77	1,31E-03
ENSG00000129625	<i>REEP5</i>	0,61	6,50E-12	0,30	1,59E-03
ENSG00000122644	<i>ARL4A</i>	0,42	2,22E-04	0,36	1,62E-03
ENSG00000256223	<i>ZNF10</i>	0,69	5,01E-05	0,55	1,67E-03
ENSG00000137575	<i>SDCBP</i>	0,34	1,09E-03	0,33	1,68E-03
ENSG00000106211	<i>HSPB1</i>	0,52	8,23E-07	0,35	1,79E-03
ENSG00000185245	<i>GP1BA</i>	1,69	1,80E-06	1,17	1,79E-03
ENSG00000134333	<i>LDHA</i>	0,22	3,73E-03	0,23	1,80E-03
ENSG00000074416	<i>MGLL</i>	0,82	2,93E-09	0,46	1,80E-03
ENSG00000198324	<i>FAM109A</i>	1,13	1,86E-13	0,52	1,90E-03
ENSG00000089723	<i>OTUB2</i>	0,61	9,97E-03	0,71	1,92E-03
ENSG00000137449	<i>CPEB2</i>	2,34	6,44E-30	0,73	1,99E-03
ENSG00000006282	<i>SPATA20</i>	0,48	5,41E-07	0,31	2,07E-03
ENSG00000162616	<i>DNAJB4</i>	0,56	3,07E-05	0,43	2,07E-03
ENSG00000213366	<i>GSTM2</i>	1,54	1,76E-09	0,84	2,27E-03
ENSG00000187790	<i>FANCM</i>	0,70	6,00E-07	0,45	2,28E-03
ENSG00000111674	<i>ENO2</i>	1,20	9,59E-09	0,68	2,35E-03
ENSG00000139865	<i>TTC6</i>	0,95	9,58E-06	0,68	2,39E-03
ENSG00000124593	<i>PRICKLE4</i>	0,87	3,51E-03	0,90	2,46E-03
ENSG00000105339	<i>DENND3</i>	0,72	7,91E-05	0,57	2,54E-03
ENSG00000124508	<i>BTN2A2</i>	0,44	3,35E-04	0,38	2,60E-03
ENSG00000048392	<i>RRM2B</i>	0,59	6,45E-06	0,41	2,66E-03
ENSG00000176974	<i>SHMT1</i>	0,51	6,48E-06	0,35	2,69E-03
ENSG00000178078	<i>STAP2</i>	0,77	1,30E-08	0,44	2,71E-03
ENSG00000069712	<i>KIAA1107</i>	0,76	7,47E-03	0,84	2,75E-03
ENSG00000141562	<i>NARF</i>	0,72	4,28E-11	0,35	2,77E-03
ENSG00000181458	<i>TMEM45A</i>	1,17	1,74E-14	0,50	2,80E-03
ENSG00000139192	<i>TAPBPL</i>	0,94	1,32E-04	0,76	2,84E-03
ENSG00000167702	<i>KIFC2</i>	1,21	5,27E-09	0,67	2,87E-03
ENSG00000166225	<i>FRS2</i>	0,90	2,77E-13	0,40	3,12E-03
ENSG00000119946	<i>CNNM1</i>	0,44	2,20E-03	0,43	3,16E-03
ENSG00000137561	<i>TTPA</i>	2,38	7,28E-18	0,91	3,21E-03

ENSG00000158987	<i>RAPGEF6</i>	0,71	6,85E-05	0,55	3,21E-03
ENSG00000160446	<i>ZDHHC12</i>	0,92	2,82E-11	0,44	3,22E-03
ENSG00000186104	<i>CYP2R1</i>	0,76	1,71E-06	0,49	3,25E-03
ENSG00000147251	<i>DOCK11</i>	1,11	8,07E-08	0,65	3,30E-03
ENSG00000145725	<i>PPIP5K2</i>	0,82	4,14E-16	0,32	3,31E-03
ENSG00000187244	<i>BCAM</i>	0,83	4,11E-14	0,35	3,44E-03
ENSG00000164209	<i>SLC25A46</i>	0,57	1,16E-06	0,36	3,45E-03
ENSG00000197857	<i>ZNF44</i>	0,82	2,03E-05	0,59	3,51E-03
ENSG00000112773	<i>FAM46A</i>	1,04	4,63E-16	0,41	3,60E-03
ENSG00000114378	<i>HYAL1</i>	0,87	2,07E-13	0,37	3,63E-03
ENSG00000148341	<i>SH3GLB2</i>	0,58	9,50E-05	0,44	3,70E-03
ENSG00000090539	<i>CHRD</i>	0,53	2,47E-03	0,51	3,71E-03
ENSG00000140398	<i>NEIL1</i>	0,71	9,81E-03	0,79	3,72E-03
ENSG00000129562	<i>DAD1</i>	0,55	4,22E-10	0,27	3,75E-03
ENSG00000119185	<i>ITGB1BP1</i>	0,61	7,03E-05	0,46	3,83E-03
ENSG00000177169	<i>ULK1</i>	0,33	8,61E-03	0,36	3,84E-03
ENSG00000115129	<i>TP53I3</i>	0,88	1,27E-08	0,48	3,99E-03
ENSG00000163898	<i>LIPH</i>	0,90	7,79E-11	0,43	4,10E-03
ENSG00000037042	<i>TUBG2</i>	0,82	1,66E-07	0,48	4,12E-03
ENSG00000173715	<i>C11ORF80</i>	0,81	8,46E-11	0,39	4,22E-03
ENSG00000105856	<i>HBP1</i>	0,75	4,09E-08	0,42	4,25E-03
ENSG00000127952	<i>STYXL1</i>	0,50	1,87E-04	0,39	4,34E-03
ENSG00000122507	<i>BBS9</i>	1,13	4,01E-08	0,63	4,43E-03
ENSG00000008323	<i>PLEKHG6</i>	1,14	3,57E-08	0,63	4,49E-03
ENSG00000127663	<i>KDM4B</i>	0,53	6,08E-05	0,39	4,49E-03
ENSG00000030582	<i>GRN</i>	0,82	7,18E-24	0,26	4,66E-03
ENSG00000238206	/	0,34	7,70E-03	0,36	4,67E-03
ENSG00000180229	<i>HERC2P2</i>	0,83	2,46E-11	0,38	4,78E-03
ENSG00000164733	<i>CTSB</i>	0,49	1,44E-09	0,24	4,80E-03
ENSG00000260855	<i>RP11-439E19.10</i>	1,62	3,89E-08	0,90	4,82E-03
ENSG00000196922	<i>ZNF252</i>	0,70	1,21E-08	0,37	4,83E-03
ENSG00000147475	<i>ERLIN2</i>	0,24	7,35E-03	0,26	4,95E-03

ENSG00000132793	<i>LPIN3</i>	0,59	1,65E-03	0,53	4,98E-03
ENSG00000013374	<i>NUB1</i>	0,45	7,78E-05	0,33	4,98E-03
ENSG00000130529	<i>TRPM4</i>	0,68	5,87E-03	0,69	5,05E-03
ENSG00000133460	<i>SLC2A11</i>	0,73	2,65E-03	0,69	5,12E-03
ENSG00000197343	<i>ZNF655</i>	0,36	9,16E-04	0,31	5,17E-03
ENSG00000240065	<i>PSMB9</i>	1,51	3,57E-06	0,97	5,20E-03
ENSG00000138642	<i>HERC6</i>	1,05	1,30E-03	0,93	5,23E-03
ENSG00000185963	<i>BICD2</i>	0,34	2,37E-03	0,31	5,26E-03
ENSG00000160014	<i>CALM1</i>	0,40	2,48E-06	0,25	5,28E-03
ENSG00000090989	<i>EXOC1</i>	0,44	1,46E-04	0,34	5,35E-03
ENSG00000033627	<i>ATP6V0A1</i>	0,45	5,80E-05	0,32	5,35E-03
ENSG00000205060	<i>SLC35B4</i>	0,37	3,10E-04	0,29	5,35E-03
ENSG00000119801	<i>YPEL5</i>	0,62	2,49E-06	0,39	5,38E-03
ENSG00000088926	<i>F11</i>	0,64	3,27E-03	0,61	5,47E-03
ENSG00000164344	<i>KLKB1</i>	1,03	2,33E-03	0,95	5,59E-03
ENSG00000177706	<i>FAM20C</i>	0,73	2,21E-06	0,45	5,88E-03
ENSG00000151458	<i>ANKRD50</i>	0,42	3,75E-04	0,34	5,93E-03
ENSG00000168016	<i>TRANK1</i>	1,25	9,24E-06	0,83	6,01E-03
ENSG00000167657	<i>DAPK3</i>	0,65	7,33E-08	0,35	6,02E-03
ENSG00000230551	<i>CTB-89H12.4</i>	0,55	7,00E-03	0,55	6,06E-03
ENSG00000128524	<i>ATP6V1F</i>	0,69	9,92E-08	0,38	6,08E-03
ENSG00000174977	<i>AC026271.5</i>	0,82	2,58E-03	0,76	6,19E-03
ENSG00000196172	<i>ZNF681</i>	1,13	4,69E-10	0,54	6,49E-03
ENSG00000188243	<i>COMMD6</i>	0,60	1,26E-03	0,52	6,60E-03
ENSG00000187954	<i>CYHR1</i>	0,43	1,42E-03	0,38	6,63E-03
ENSG00000185100	<i>ADSSL1</i>	0,99	2,50E-03	0,90	6,63E-03
ENSG00000100417	<i>PMM1</i>	0,60	2,06E-03	0,54	6,65E-03
ENSG00000143036	<i>SLC44A3</i>	0,66	4,28E-08	0,35	6,66E-03
ENSG00000120868	<i>APAF1</i>	0,34	2,49E-03	0,31	6,66E-03
ENSG00000135241	<i>PNPLA8</i>	0,42	7,81E-04	0,34	6,67E-03
ENSG00000156587	<i>UBE2L6</i>	0,70	2,53E-06	0,43	6,71E-03
ENSG00000174917	<i>C19ORF70</i>	0,67	1,33E-05	0,44	6,84E-03

ENSG00000170502	<i>NUDT9</i>	0,32	6,89E-03	0,32	6,85E-03
ENSG00000106479	<i>ZNF862</i>	1,07	3,29E-05	0,74	6,95E-03
ENSG00000119922	<i>IFIT2</i>	1,18	5,90E-04	0,95	6,96E-03
ENSG00000117791	<i>MOSC2</i>	0,77	1,96E-07	0,43	7,10E-03
ENSG00000127419	<i>TMEM175</i>	0,84	2,67E-06	0,52	7,16E-03
ENSG00000067715	<i>SYT1</i>	1,36	7,16E-11	0,62	7,23E-03
ENSG00000157823	<i>AP3S2</i>	0,89	3,68E-06	0,55	7,33E-03
ENSG00000130150	<i>MOSPD2</i>	0,98	8,90E-08	0,53	7,48E-03
ENSG00000135164	<i>DMTF1</i>	0,32	6,03E-03	0,31	7,52E-03
ENSG00000105784	<i>RUNDC3B</i>	1,12	3,65E-04	0,87	7,59E-03
ENSG00000154917	<i>RAB6B</i>	0,83	7,04E-07	0,48	7,76E-03
ENSG00000114796	<i>KLHL24</i>	0,80	3,33E-08	0,42	8,01E-03
ENSG00000224051	<i>CPTP</i>	0,87	1,67E-07	0,47	8,13E-03
ENSG00000179750	<i>APOBEC3B</i>	0,75	4,54E-03	0,70	8,27E-03
ENSG00000168591	<i>TMUB2</i>	0,47	5,65E-06	0,29	8,32E-03
ENSG00000123159	<i>GIPC1</i>	0,37	1,68E-03	0,32	8,32E-03
ENSG00000172671	<i>ANUBL1</i>	1,41	3,75E-08	0,74	8,33E-03
ENSG00000043143	<i>PHF15</i>	0,74	4,73E-05	0,50	8,52E-03
ENSG00000137267	<i>TUBB2A</i>	0,70	7,58E-10	0,33	8,60E-03
ENSG00000152270	<i>PDE3B</i>	0,61	3,69E-05	0,41	8,62E-03
ENSG00000139194	<i>RBP5</i>	0,89	9,85E-05	0,63	8,78E-03
ENSG00000163032	<i>VSNL1</i>	0,68	1,66E-05	0,44	8,80E-03
ENSG00000196139	<i>AKR1C3</i>	1,10	1,84E-06	0,65	8,82E-03
ENSG00000109819	<i>PPARGC1A</i>	1,05	4,55E-15	0,39	8,86E-03
ENSG00000143303	<i>C1ORF66</i>	0,61	3,98E-05	0,41	9,13E-03
ENSG00000214719	<i>LRRC37B2</i>	1,87	7,62E-23	0,57	9,23E-03
ENSG00000118596	<i>SLC16A7</i>	0,75	7,80E-11	0,33	9,39E-03
ENSG00000118308	<i>LRMP</i>	1,48	2,50E-07	0,81	9,41E-03
ENSG00000100106	<i>TRIOBP</i>	0,73	8,21E-04	0,58	9,42E-03
ENSG00000178301	<i>AQP11</i>	1,69	1,32E-10	0,76	9,48E-03
ENSG00000079974	<i>RABL2B</i>	0,56	8,55E-03	0,55	9,53E-03
ENSG00000237945	<i>LINC00649</i>	0,87	6,60E-07	0,49	9,67E-03

ENSG00000171298	GAA	0,67	1,98E-14	0,25	9,72E-03
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S8. Upregulated genes (n=201) after Inc18q22.2 knockdown in HepG2 and Hep3B. FDR<0.01.

Ensembl Gene ID	Official gene name	HepG2				Hep3B			
		KD1 vs Mock		KD2 vs Mock		KD1 vs Mock		KD2 vs Mock	
		log2FoldChange	FDR	log2FoldChange	FDR	log2FoldChange	FDR	log2FoldChange	FDR
ENSG00000196975	ANXA4	1,28	2,59E-78	1,88	1,18E-170	0,61	7,27E-12	0,94	5,87E-27
ENSG00000165092	ALDH1A1	2,16	1,31E-228	1,64	1,06E-130	0,34	3,31E-09	1,19	9,32E-107
ENSG00000162817	C1ORF115	2,06	3,43E-162	1,62	5,47E-98	1,27	8,72E-37	1,25	6,64E-36
ENSG00000172296	SPTLC3	1,00	1,08E-41	1,31	2,08E-71	1,08	3,88E-05	1,31	3,64E-07
ENSG00000168385	SEPT2	0,89	2,91E-51	0,88	3,17E-49	0,68	7,98E-27	0,68	9,82E-27
ENSG00000172239	LOC645139	1,18	3,96E-37	1,20	2,77E-38	0,71	1,27E-13	0,72	4,91E-14
ENSG00000113790	EHHADH	0,77	5,77E-14	1,26	5,60E-37	1,04	1,22E-17	0,62	8,77E-07
ENSG00000102931	ARL2BP	1,93	1,38E-51	1,64	4,87E-36	1,74	3,67E-22	0,92	1,97E-06
ENSG00000178988	MRFAP1L1	1,21	5,90E-34	1,25	5,24E-36	0,59	8,24E-08	1,38	6,49E-42
ENSG00000117528	ABCD3	0,94	2,81E-40	0,88	1,99E-34	0,94	8,11E-24	1,21	2,13E-39
ENSG00000256162	SMLR1	0,69	2,10E-24	0,83	4,00E-34	0,81	5,06E-06	1,21	1,44E-12
ENSG00000131242	RAB11FIP4	0,88	1,87E-33	0,90	4,86E-34	0,72	8,94E-15	0,84	3,42E-20
ENSG00000166450	PRTG	0,46	1,69E-06	1,08	2,04E-33	0,95	4,08E-06	0,91	1,09E-05
ENSG00000113583	C5ORF15	0,75	8,20E-16	1,09	4,39E-33	0,76	1,35E-10	0,76	1,45E-10
ENSG00000111897	SERINC1	0,60	4,97E-12	1,01	5,17E-33	0,42	4,99E-09	0,71	1,39E-24
ENSG00000134962	KLB	0,52	1,24E-11	0,84	1,23E-29	0,45	6,21E-09	0,44	3,35E-08
ENSG00000104371	DKK4	2,09	2,71E-14	3,02	1,23E-29	1,94	4,90E-08	2,48	1,32E-12
ENSG00000196502	SULT1A1	0,79	1,91E-24	0,87	2,21E-29	0,80	1,47E-08	1,08	3,40E-15
ENSG00000144118	RALB	1,26	4,73E-29	1,27	3,73E-29	0,68	1,11E-09	0,73	6,36E-11
ENSG00000182326	C1S	1,84	2,36E-56	1,27	4,29E-26	0,90	5,10E-16	0,48	4,40E-05
ENSG00000165410	CFL2	0,62	8,11E-20	0,71	5,99E-25	0,61	9,31E-11	0,35	3,35E-04

ENSG00000081051	<i>AFP</i>	0,62	1,74E-18	0,73	2,01E-24	1,31	6,18E-56	1,31	6,28E-56
ENSG00000112078	<i>KCTD20</i>	0,65	1,61E-17	0,77	3,52E-24	0,66	9,06E-15	0,93	1,87E-29
ENSG00000120697	<i>ALG5</i>	1,07	1,62E-13	1,44	4,73E-24	0,92	4,30E-09	1,19	3,47E-15
ENSG00000096092	<i>TMEM14A</i>	1,76	2,39E-53	1,20	5,89E-24	0,80	3,06E-11	0,44	6,40E-04
ENSG00000134049	<i>IER3IP1</i>	1,00	2,11E-15	1,26	7,37E-24	0,77	4,17E-03	1,07	2,71E-05
ENSG00000072210	<i>ALDH3A2</i>	0,65	2,60E-19	0,72	2,25E-23	1,00	5,68E-48	1,14	3,51E-62
ENSG00000151632	<i>AKR1C2</i>	1,89	5,68E-140	0,77	2,30E-23	1,61	4,41E-49	1,24	3,26E-29
ENSG00000134717	<i>BTF3L4</i>	0,45	1,04E-04	1,08	2,33E-23	1,38	1,93E-32	1,75	2,23E-53
ENSG00000186106	<i>ANKRD46</i>	0,53	7,69E-05	1,24	2,52E-23	0,97	2,62E-15	1,26	1,05E-25
ENSG00000165526	<i>RPUSD4</i>	0,58	2,07E-07	1,03	3,80E-22	0,77	1,62E-07	1,50	2,13E-27
ENSG00000130779	<i>CLIP1</i>	0,38	3,28E-05	0,83	6,21E-22	0,53	7,40E-09	0,84	4,62E-21
ENSG00000163624	<i>CDS1</i>	0,56	5,71E-04	1,41	1,40E-21	2,26	1,34E-36	1,60	4,39E-18
ENSG00000152601	<i>MBNL1</i>	1,01	2,85E-30	0,86	1,62E-21	0,90	2,25E-22	1,10	2,84E-33
ENSG00000146416	<i>AIG1</i>	0,67	3,12E-14	0,82	2,01E-20	1,01	3,56E-18	0,49	8,48E-05
ENSG00000102753	<i>KPNA3</i>	0,55	1,69E-11	0,74	3,78E-20	0,62	1,70E-08	0,47	2,72E-05
ENSG00000115425	<i>PECR</i>	0,63	4,43E-14	0,76	7,48E-20	0,58	4,13E-06	0,61	1,23E-06
ENSG00000196937	<i>FAM3C</i>	0,44	2,44E-03	1,19	1,64E-19	1,47	1,76E-32	1,87	1,02E-53
ENSG00000121578	<i>B4GALT4</i>	0,41	1,36E-03	1,04	2,09E-19	0,43	7,40E-04	0,98	6,56E-17
ENSG00000138823	<i>MTTP</i>	1,07	1,68E-31	0,83	7,26E-19	2,10	5,03E-134	1,98	5,93E-120
ENSG00000139324	<i>TMTCS</i>	1,15	5,63E-22	1,07	8,14E-19	0,89	1,57E-16	0,57	3,37E-07
ENSG00000153130	<i>SCOC</i>	0,41	5,01E-05	0,85	1,13E-18	0,80	5,87E-14	0,73	1,42E-11
ENSG00000121858	<i>TNFSF10</i>	0,79	1,81E-14	0,90	2,46E-18	1,60	3,53E-09	1,27	4,94E-06
ENSG00000153066	<i>TXNDC11</i>	0,52	4,01E-10	0,70	1,49E-17	0,99	2,54E-21	0,83	4,28E-15
ENSG00000111052	<i>LIN7A</i>	0,49	1,34E-06	0,82	2,34E-17	0,75	7,53E-16	0,71	3,33E-14
ENSG00000166035	<i>LIPC</i>	0,64	2,30E-08	0,94	4,65E-17	0,83	2,82E-12	0,94	1,86E-15
ENSG00000110169	<i>HPX</i>	1,70	8,79E-22	1,51	5,94E-17	1,87	1,92E-88	0,72	3,49E-13
ENSG00000151090	<i>THRB</i>	1,27	3,34E-32	0,91	2,88E-16	1,10	2,92E-30	1,01	9,02E-26
ENSG00000204899	<i>C13ORF37</i>	0,81	9,49E-09	1,12	3,25E-16	1,13	1,11E-09	0,91	2,23E-06
ENSG00000137831	<i>UACA</i>	0,58	1,10E-06	0,93	7,52E-16	1,42	6,73E-41	0,49	2,06E-05
ENSG00000204128	<i>C2ORF72</i>	0,66	3,06E-22	0,56	8,10E-16	0,85	1,55E-20	0,68	1,98E-13
ENSG00000170456	<i>DENND5B</i>	0,42	1,63E-05	0,73	2,18E-15	0,40	1,59E-03	0,62	4,01E-07
ENSG00000184117	<i>NIPSNAP1</i>	0,30	2,21E-04	0,61	2,82E-15	0,37	1,72E-05	0,40	1,91E-06

ENSG00000170899	<i>GSTA4</i>	1,03	3,34E-20	0,89	5,98E-15	1,01	1,53E-12	0,72	1,17E-06
ENSG00000175854	<i>C9ORF119</i>	0,86	1,83E-08	1,17	9,36E-15	0,74	1,57E-07	0,80	1,20E-08
ENSG00000104325	<i>DECR1</i>	0,94	1,04E-18	0,84	9,69E-15	0,82	3,35E-19	1,15	3,86E-38
ENSG00000131981	<i>LGALS3</i>	0,36	1,04E-03	0,78	3,02E-14	0,92	6,06E-09	0,74	4,66E-06
ENSG00000077254	<i>USP33</i>	0,72	3,69E-11	0,82	3,15E-14	0,60	1,38E-06	0,66	9,05E-08
ENSG00000143322	<i>ABL2</i>	0,60	1,42E-08	0,78	8,17E-14	0,60	1,10E-07	0,39	8,90E-04
ENSG00000023909	<i>GCLM</i>	0,84	3,34E-16	0,76	5,38E-13	0,62	1,04E-07	0,40	1,25E-03
ENSG00000072364	<i>AFF4</i>	0,51	1,94E-10	0,57	1,87E-12	0,75	2,60E-23	0,71	1,56E-20
ENSG00000181019	<i>NQO1</i>	1,33	1,28E-70	0,55	2,36E-12	0,91	1,02E-27	0,97	1,48E-31
ENSG00000196083	<i>IL1RAP</i>	0,57	4,78E-09	0,67	5,87E-12	1,28	1,33E-50	0,62	3,14E-12
ENSG00000128311	<i>TST</i>	0,55	2,78E-06	0,79	6,59E-12	0,82	1,05E-11	0,90	4,32E-14
ENSG00000116774	<i>OLFML3</i>	2,58	2,21E-30	1,63	9,13E-12	0,51	6,29E-08	0,37	1,52E-04
ENSG00000106853	<i>PTGR1</i>	2,74	2,92E-65	1,17	1,50E-11	2,80	1,79E-121	1,72	1,74E-44
ENSG00000117280	<i>RAB7L1</i>	0,77	1,98E-07	0,98	1,50E-11	0,70	5,73E-12	0,49	4,28E-06
ENSG00000166483	<i>WEE1</i>	0,39	5,10E-04	0,72	1,85E-11	0,46	5,35E-07	0,64	3,09E-13
ENSG00000125144	<i>MT1G</i>	1,80	3,38E-13	1,68	2,00E-11	1,59	5,79E-08	1,08	4,67E-04
ENSG00000092841	<i>MYL6</i>	0,24	5,84E-03	0,55	2,33E-11	0,46	3,82E-08	0,54	6,00E-11
ENSG00000197535	<i>MYO5A</i>	0,81	2,94E-09	0,90	3,74E-11	0,83	1,60E-08	1,35	5,23E-22
ENSG00000159322	<i>ADPGK</i>	0,36	8,65E-04	0,66	1,11E-10	0,31	5,10E-03	0,46	1,74E-05
ENSG00000132437	<i>DDC</i>	0,98	6,70E-22	0,68	1,61E-10	1,83	4,35E-28	1,32	1,45E-14
ENSG00000108479	<i>GALK1</i>	0,91	3,25E-17	0,71	1,84E-10	1,29	6,23E-27	0,51	8,98E-05
ENSG00000170873	<i>MTSS1</i>	0,69	2,03E-14	0,58	5,67E-10	0,80	3,97E-08	0,87	1,99E-09
ENSG00000145703	<i>IQGAP2</i>	0,57	4,14E-16	0,45	6,88E-10	0,56	1,55E-07	0,66	3,46E-10
ENSG00000198074	<i>AKR1B10</i>	2,76	4,56E-120	0,79	1,05E-09	1,03	1,66E-06	1,25	3,40E-09
ENSG00000151413	<i>NUBPL</i>	0,92	7,12E-19	0,66	1,19E-09	1,11	7,73E-10	0,74	9,81E-05
ENSG00000029364	<i>SLC39A9</i>	0,73	2,17E-17	0,54	1,39E-09	0,61	2,06E-13	0,61	2,73E-13
ENSG00000234127	<i>TRIM26</i>	1,10	4,55E-30	0,62	1,54E-09	0,53	1,76E-09	0,69	6,47E-16
ENSG00000120860	<i>CCDC53</i>	0,70	2,79E-05	0,97	1,71E-09	0,99	1,09E-06	1,06	1,57E-07
ENSG00000105852	<i>PON3</i>	1,22	2,49E-18	0,88	2,07E-09	0,50	1,84E-03	0,78	2,51E-07
ENSG00000177565	<i>TBL1XR1</i>	0,83	4,06E-17	0,62	2,28E-09	1,27	1,96E-64	0,40	5,97E-07
ENSG00000143819	<i>EPHX1</i>	1,53	1,10E-69	0,56	2,33E-09	1,28	1,38E-40	0,79	1,24E-15
ENSG00000095209	<i>TMEM38B</i>	0,47	3,93E-04	0,76	2,67E-09	0,73	1,54E-08	0,61	3,26E-06

ENSG00000013583	<i>HEBP1</i>	0,96	6,95E-11	0,89	3,69E-09	1,58	1,18E-26	1,24	1,42E-16
ENSG00000039068	<i>CDH1</i>	0,81	3,11E-08	0,85	7,83E-09	1,29	6,53E-36	0,87	3,60E-16
ENSG000000113494	<i>PRLR</i>	0,34	5,72E-03	0,67	7,83E-09	0,90	1,21E-08	1,00	1,79E-10
ENSG000000042286	<i>AIFM2</i>	0,80	1,22E-16	0,58	9,09E-09	0,64	3,31E-10	0,49	2,66E-06
ENSG000000147475	<i>ERLIN2</i>	0,29	9,14E-04	0,48	1,03E-08	0,24	7,35E-03	0,26	4,95E-03
ENSG000000145476	<i>CYP4V2</i>	0,60	9,23E-05	0,85	1,21E-08	1,28	1,71E-20	0,99	2,14E-12
ENSG000000070061	<i>IKBKAP</i>	0,56	2,20E-16	0,40	1,26E-08	0,33	1,97E-04	1,03	1,17E-35
ENSG000000014641	<i>MDH1</i>	0,26	1,53E-03	0,45	1,30E-08	0,26	1,19E-03	0,34	1,35E-05
ENSG000000161533	<i>ACOX1</i>	0,43	3,93E-09	0,42	1,43E-08	0,84	6,40E-29	0,30	2,53E-04
ENSG000000183978	<i>CCDC56</i>	0,65	1,21E-11	0,56	1,81E-08	0,43	1,76E-05	0,38	1,58E-04
ENSG000000197165	<i>SULT1A2</i>	1,07	1,26E-17	0,74	2,22E-08	0,94	2,15E-07	0,88	1,95E-06
ENSG000000131018	<i>SYNE1</i>	1,43	1,93E-44	0,61	3,03E-08	0,98	1,40E-16	0,43	9,84E-04
ENSG000000143158	<i>BRP44</i>	0,89	1,80E-14	0,67	3,45E-08	0,50	6,26E-11	0,39	4,73E-07
ENSG000000166974	<i>MAPRE2</i>	0,27	9,23E-03	0,53	5,41E-08	0,48	4,13E-03	0,60	2,54E-04
ENSG000000142166	<i>IFNAR1</i>	0,49	3,28E-07	0,52	6,71E-08	0,61	2,84E-12	0,70	7,99E-16
ENSG000000117305	<i>HMGCL</i>	0,49	1,60E-04	0,68	8,00E-08	0,96	9,34E-18	0,44	3,13E-04
ENSG000000141034	<i>C17ORF39</i>	0,58	1,36E-03	0,93	9,47E-08	1,14	3,17E-10	1,19	4,41E-11
ENSG000000180667	<i>YOD1</i>	0,45	1,02E-03	0,69	9,49E-08	0,71	1,09E-14	0,45	2,56E-06
ENSG000000006282	<i>SPATA20</i>	0,92	3,69E-21	0,55	9,51E-08	0,48	5,41E-07	0,31	2,07E-03
ENSG000000139410	<i>SDSL</i>	0,92	1,20E-03	1,45	9,93E-08	0,66	2,87E-03	0,82	1,32E-04
ENSG000000166311	<i>SMPD1</i>	0,85	4,83E-07	0,90	1,08E-07	1,03	2,64E-21	0,96	1,50E-18
ENSG000000176974	<i>SHMT1</i>	0,82	1,94E-14	0,60	1,32E-07	0,51	6,48E-06	0,35	2,69E-03
ENSG000000004897	<i>CDC27</i>	0,22	5,14E-03	0,40	1,42E-07	0,53	1,90E-10	0,70	1,18E-17
ENSG000000120948	<i>TARDBP</i>	0,41	6,75E-08	0,40	1,45E-07	0,21	9,33E-03	0,57	5,29E-15
ENSG000000205423	<i>LOC100130176</i>	0,69	1,12E-06	0,75	1,53E-07	0,80	5,47E-05	0,77	1,41E-04
ENSG000000124120	<i>TTPAL</i>	0,76	2,19E-13	0,56	1,97E-07	0,42	2,99E-04	0,82	1,03E-13
ENSG000000155640	<i>C10ORF12</i>	0,70	8,48E-05	0,91	2,48E-07	0,83	2,80E-06	1,32	6,03E-15
ENSG000000094631	<i>HDAC6</i>	0,63	1,97E-12	0,48	2,62E-07	0,71	7,94E-09	0,56	9,93E-06
ENSG000000135617	<i>C2ORF7</i>	1,23	3,31E-14	0,88	2,65E-07	0,99	2,75E-13	0,92	1,15E-11
ENSG000000139865	<i>TTC6</i>	0,98	1,88E-09	0,86	2,86E-07	0,95	9,58E-06	0,68	2,39E-03
ENSG000000106789	<i>CORO2A</i>	0,50	3,91E-07	0,51	3,02E-07	0,98	2,27E-19	0,88	9,79E-16
ENSG000000172955	<i>ADH6</i>	0,82	1,20E-30	0,39	3,15E-07	0,78	2,03E-04	0,85	4,48E-05

ENSG00000181274	<i>FRAT2</i>	0,86	1,94E-08	0,80	3,33E-07	1,33	4,24E-23	0,78	2,60E-08
ENSG00000139194	<i>RBP5</i>	1,03	2,90E-08	0,96	4,54E-07	0,89	9,85E-05	0,63	8,78E-03
ENSG00000136935	<i>GOLGA1</i>	0,73	3,56E-13	0,53	4,69E-07	0,63	1,46E-07	0,68	7,87E-09
ENSG00000163644	<i>PPM1K</i>	0,76	5,45E-04	1,07	5,66E-07	0,66	3,31E-03	1,18	1,58E-08
ENSG00000197780	<i>TAF13</i>	0,64	1,71E-05	0,73	6,58E-07	0,58	3,89E-06	0,77	2,67E-10
ENSG00000137561	<i>TTPA</i>	2,11	7,06E-19	1,27	8,09E-07	2,38	7,28E-18	0,91	3,21E-03
ENSG00000075945	<i>KIFAP3</i>	0,87	7,36E-08	0,82	8,63E-07	0,89	2,13E-14	0,71	1,66E-09
ENSG00000152056	<i>AP1S3</i>	0,56	1,03E-03	0,81	1,11E-06	0,84	2,15E-10	0,75	1,81E-08
ENSG00000170445	<i>HARS</i>	0,32	2,76E-03	0,50	1,24E-06	0,40	4,09E-04	0,75	3,42E-12
ENSG00000124508	<i>BTN2A2</i>	0,72	4,45E-05	0,83	2,41E-06	0,44	3,35E-04	0,38	2,60E-03
ENSG00000116906	<i>GNPAT</i>	0,60	3,54E-15	0,38	2,53E-06	0,31	5,46E-04	0,56	2,73E-11
ENSG00000185787	<i>MORF4</i>	0,29	2,40E-05	0,32	2,79E-06	0,35	1,17E-07	0,35	2,14E-07
ENSG00000006576	<i>PHTF2</i>	0,44	3,85E-03	0,67	3,06E-06	0,65	1,98E-13	0,69	1,18E-14
ENSG00000127952	<i>STYXL1</i>	0,55	1,34E-03	0,77	3,49E-06	0,50	1,87E-04	0,39	4,34E-03
ENSG00000135387	<i>CAPRIN1</i>	0,63	2,39E-25	0,30	3,57E-06	0,24	7,62E-04	0,27	1,12E-04
ENSG00000106780	<i>MEGF9</i>	0,42	8,28E-05	0,49	4,87E-06	0,60	6,53E-10	0,70	2,10E-13
ENSG00000118564	<i>FBXL5</i>	0,52	1,55E-05	0,55	5,42E-06	0,61	1,16E-08	0,41	1,98E-04
ENSG00000178537	<i>SLC25A20</i>	1,36	1,26E-27	0,62	6,28E-06	1,17	2,61E-21	0,81	2,48E-10
ENSG00000103496	<i>STX4</i>	0,69	6,43E-08	0,60	6,46E-06	0,90	2,88E-10	0,57	1,36E-04
ENSG00000145217	<i>SLC26A1</i>	0,92	1,48E-10	0,68	6,91E-06	1,14	2,19E-15	1,11	1,21E-14
ENSG00000083799	<i>CYLD</i>	0,46	1,27E-04	0,54	7,56E-06	0,55	8,15E-05	0,48	7,61E-04
ENSG00000130988	<i>RGN</i>	0,75	4,43E-12	0,51	8,36E-06	1,69	8,60E-23	1,16	8,86E-11
ENSG00000164124	<i>TMEM144</i>	0,50	2,51E-03	0,70	1,14E-05	1,25	1,72E-18	1,22	8,99E-18
ENSG00000159403	<i>C1R</i>	1,26	1,70E-06	1,17	1,47E-05	0,86	3,94E-06	0,77	5,14E-05
ENSG00000079974	<i>RABL2B</i>	0,86	8,44E-06	0,84	2,01E-05	0,56	8,55E-03	0,55	9,53E-03
ENSG00000173193	<i>PARP14</i>	1,55	1,51E-45	0,51	3,20E-05	0,98	6,67E-20	0,81	6,40E-14
ENSG00000172007	<i>RAB33B</i>	0,68	5,36E-05	0,71	3,34E-05	0,74	3,50E-06	0,64	8,94E-05
ENSG00000142156	<i>COL6A1</i>	0,87	1,39E-10	0,60	3,36E-05	1,06	4,21E-13	0,89	2,05E-09
ENSG00000005469	<i>CROT</i>	0,78	1,04E-08	0,59	3,77E-05	1,49	4,87E-38	0,87	4,47E-13
ENSG00000198689	<i>SLC9A6</i>	0,81	1,98E-06	0,72	4,42E-05	1,00	1,36E-10	0,70	1,37E-05
ENSG00000180198	<i>RCC1</i>	0,40	6,85E-06	0,38	4,48E-05	0,40	1,69E-05	0,67	1,58E-13
ENSG00000012174	<i>MBTPS2</i>	0,64	1,69E-10	0,43	5,41E-05	1,05	5,75E-22	0,45	1,59E-04

ENSG00000204439	<i>C6ORF47</i>	0,94	6,61E-05	0,96	6,18E-05	0,60	1,06E-03	1,39	1,18E-16
ENSG00000104889	<i>RNASEH2A</i>	0,64	2,17E-05	0,61	8,23E-05	0,57	9,57E-07	0,50	2,22E-05
ENSG00000115216	<i>NRBP1</i>	0,25	7,36E-04	0,29	8,26E-05	0,42	8,96E-06	0,39	4,32E-05
ENSG00000198964	<i>SGMS1</i>	0,78	2,58E-09	0,55	8,75E-05	1,33	1,17E-32	0,79	1,22E-11
ENSG00000004961	<i>HCCS</i>	0,43	4,45E-03	0,57	1,09E-04	0,66	3,31E-06	1,11	2,29E-16
ENSG00000187134	<i>AKR1C1</i>	1,68	5,78E-140	0,28	1,37E-04	1,02	3,57E-24	0,66	1,75E-10
ENSG00000119638	<i>NEK9</i>	0,66	2,75E-11	0,40	1,48E-04	0,48	4,72E-08	0,50	1,51E-08
ENSG00000196922	<i>ZNF252</i>	0,83	5,00E-11	0,50	2,26E-04	0,70	1,21E-08	0,37	4,83E-03
ENSG00000187546	<i>TMEM195</i>	1,14	7,29E-04	1,24	2,42E-04	0,58	2,23E-07	0,60	1,10E-07
ENSG00000172070	<i>SRXN1</i>	1,20	1,46E-16	0,59	2,74E-04	1,75	3,04E-21	1,08	2,73E-08
ENSG00000185813	<i>PCYT2</i>	0,44	8,40E-09	0,30	2,86E-04	0,24	9,68E-03	0,45	1,56E-07
ENSG00000143653	<i>SCCPDH</i>	0,35	4,75E-04	0,36	4,53E-04	0,79	4,54E-17	0,41	3,68E-05
ENSG00000159348	<i>CYB5R1</i>	0,67	9,39E-05	0,62	4,59E-04	0,85	1,19E-16	0,57	9,55E-08
ENSG00000156587	<i>UBE2L6</i>	0,91	2,70E-11	0,51	6,08E-04	0,70	2,53E-06	0,43	6,71E-03
ENSG00000129562	<i>DAD1</i>	0,25	3,65E-03	0,29	6,73E-04	0,55	4,22E-10	0,27	3,75E-03
ENSG00000095321	<i>CRAT</i>	0,44	6,39E-05	0,38	7,31E-04	0,69	3,56E-08	0,64	4,46E-07
ENSG00000182165	<i>TP53TG1</i>	0,58	2,50E-03	0,65	7,51E-04	0,67	4,88E-03	0,81	5,17E-04
ENSG00000008869	<i>HEATR5B</i>	0,53	1,49E-06	0,39	7,99E-04	0,37	2,10E-03	0,39	1,30E-03
ENSG00000117450	<i>PRDX1</i>	0,55	8,01E-22	0,21	8,01E-04	0,29	6,74E-05	0,30	4,57E-05
ENSG00000171307	<i>ZDHHC16</i>	0,39	8,30E-04	0,40	8,51E-04	0,55	1,41E-05	0,46	4,53E-04
ENSG00000182179	<i>UBA7</i>	0,91	4,96E-08	0,60	8,60E-04	0,88	1,21E-03	0,92	7,21E-04
ENSG00000119946	<i>CNNM1</i>	0,46	8,04E-03	0,56	8,92E-04	0,44	2,20E-03	0,43	3,16E-03
ENSG00000130005	<i>GAMT</i>	0,83	4,14E-21	0,33	9,22E-04	1,01	8,48E-22	0,84	3,66E-15
ENSG00000215039	<i>CD27-AS1</i>	0,81	3,60E-03	0,92	9,38E-04	0,70	8,27E-03	0,83	1,28E-03
ENSG00000138794	<i>CASP6</i>	0,76	7,91E-06	0,59	1,11E-03	0,69	3,30E-06	0,66	1,08E-05
ENSG00000124357	<i>NAGK</i>	0,75	2,67E-08	0,47	1,23E-03	0,94	1,67E-18	0,45	1,10E-04
ENSG00000143036	<i>SLC44A3</i>	0,86	1,89E-04	0,77	1,30E-03	0,66	4,28E-08	0,35	6,66E-03
ENSG00000137575	<i>SDCBP</i>	0,35	2,85E-04	0,32	1,31E-03	0,34	1,09E-03	0,33	1,68E-03
ENSG00000154265	<i>ABCA5</i>	1,47	5,68E-27	0,50	1,31E-03	1,11	2,58E-19	0,58	9,68E-06
ENSG00000145246	<i>ATP10D</i>	1,31	5,36E-09	0,78	1,49E-03	0,42	2,56E-04	0,46	5,07E-05
ENSG00000135637	<i>CCDC142</i>	1,26	9,01E-20	0,50	1,67E-03	0,65	2,01E-05	0,54	5,58E-04
ENSG00000185339	<i>TCN2</i>	2,12	1,04E-11	1,05	2,25E-03	0,60	1,53E-03	0,88	1,32E-06

ENSG00000143545	LOC100131294	0,44	3,44E-03	0,46	2,30E-03	0,38	1,12E-03	0,52	4,08E-06
ENSG00000037042	TUBG2	0,54	1,98E-04	0,46	2,41E-03	0,82	1,66E-07	0,48	4,12E-03
ENSG00000110013	SIAE	0,56	1,83E-05	0,42	2,49E-03	0,99	2,06E-07	0,84	1,35E-05
ENSG00000213366	GSTM2	1,16	9,05E-07	0,77	2,58E-03	1,54	1,76E-09	0,84	2,27E-03
ENSG00000108846	ABCC3	1,08	9,66E-28	0,34	2,63E-03	0,43	5,28E-04	0,72	1,52E-09
ENSG00000166801	FAM111A	1,05	1,59E-10	0,54	3,15E-03	0,60	8,77E-07	0,52	2,75E-05
ENSG00000100612	DHRS7	0,46	7,81E-04	0,41	3,36E-03	1,10	1,64E-27	0,77	1,01E-13
ENSG00000146904	EPHA1	1,81	6,10E-25	0,60	3,40E-03	1,77	1,88E-19	1,05	3,93E-07
ENSG00000121057	AKAP1	0,74	1,49E-20	0,26	3,75E-03	1,16	4,30E-51	0,96	9,29E-35
ENSG00000118418	HMGN3	0,60	2,30E-09	0,32	3,89E-03	0,28	1,95E-03	0,52	1,24E-09
ENSG00000140465	CYP1A1	0,76	5,65E-04	0,66	3,95E-03	1,39	1,49E-47	0,90	2,60E-20
ENSG00000113369	ARRDC3	0,39	2,73E-03	0,39	4,14E-03	1,20	4,40E-14	0,68	5,56E-05
ENSG00000136810	TXN	0,32	8,02E-05	0,25	4,31E-03	0,29	1,90E-03	0,48	6,57E-08
ENSG00000119185	ITGB1BP1	0,50	2,66E-06	0,33	5,03E-03	0,61	7,03E-05	0,46	3,83E-03
ENSG00000076555	ACACB	0,94	1,34E-12	0,41	6,14E-03	1,07	2,14E-09	0,90	8,14E-07
ENSG00000179163	FUCA1	0,60	7,33E-08	0,33	6,45E-03	0,89	1,63E-09	0,58	1,84E-04
ENSG00000214530	STARD10	0,78	6,28E-25	0,24	6,51E-03	0,95	4,81E-16	0,85	9,29E-13
ENSG00000063322	MED29	0,66	5,78E-10	0,32	7,06E-03	0,62	1,44E-07	0,49	6,60E-05
ENSG00000114999	TTL	0,27	2,87E-03	0,24	8,52E-03	0,52	1,56E-08	0,37	1,29E-04
ENSG00000137449	CPEB2	1,17	8,46E-09	0,60	8,65E-03	2,34	6,44E-30	0,73	1,99E-03

S9. Downregulated genes (n=278) after Inc18q22.2 knockdown in HepG2 and Hep3B. FDR<0.01.

Ensembl Gene ID	Official gene name	HepG2				Hep3B			
		KD1 vs Mock		KD2 vs Mock		KD1 vs Mock		KD2 vs Mock	
		log2FoldChange	FDR	log2FoldChange	FDR	log2FoldChange	FDR	log2FoldChange	FDR
ENSG00000132031	MATN3	-3,73	0,00E+00	-2,77	1,01E-252	-0,68	9,04E-07	-0,38	8,92E-03
ENSG00000116016	EPAS1	-0,90	1,70E-51	-1,31	2,10E-106	-0,90	7,37E-30	-0,83	1,13E-25
ENSG00000137801	THBS1	-1,17	1,03E-45	-1,73	2,38E-93	-1,62	3,66E-96	-1,94	1,51E-136

ENSG00000167658	<i>EEF2</i>	-0,42	3,76E-16	-0,94	2,37E-77	-0,33	3,82E-08	-0,83	1,50E-46
ENSG00000147403	<i>RPL10</i>	-0,51	4,27E-19	-1,04	1,83E-75	-0,31	5,49E-05	-1,35	1,86E-75
ENSG00000118523	<i>CTGF</i>	-1,95	8,34E-49	-2,17	6,74E-60	-1,46	3,05E-94	-2,13	3,43E-194
ENSG00000139514	<i>SLC7A1</i>	-1,03	6,47E-47	-1,10	4,54E-52	-1,27	2,52E-39	-1,06	2,57E-28
ENSG00000144677	<i>CTDSP1</i>	-1,77	1,27E-79	-1,37	1,36E-48	-1,47	3,38E-28	-1,39	3,95E-26
ENSG00000142178	<i>SIK1</i>	-1,69	1,51E-61	-1,48	3,27E-47	-1,15	1,73E-30	-1,25	2,21E-36
ENSG00000103257	<i>SLC7A5</i>	-0,31	2,84E-05	-1,01	1,12E-46	-1,03	7,06E-43	-2,14	2,47E-174
ENSG00000142541	<i>RPL13A</i>	-0,78	1,99E-43	-0,76	1,49E-40	-0,69	5,40E-26	-0,38	1,71E-08
ENSG00000198561	<i>CTNND1</i>	-0,56	1,71E-17	-0,86	3,42E-40	-0,79	6,66E-31	-0,71	2,96E-25
ENSG00000185269	<i>NOTUM</i>	-2,01	6,04E-91	-1,31	1,09E-39	-1,75	3,75E-10	-0,73	9,73E-03
ENSG00000087916	<i>SLC6A14</i>	-3,15	1,12E-65	-2,26	3,19E-39	-1,64	4,69E-10	-1,39	1,25E-07
ENSG00000171552	<i>BCL2L1</i>	-0,50	5,19E-18	-0,73	1,69E-36	-0,41	9,72E-09	-1,12	6,42E-59
ENSG00000142534	<i>RPS11</i>	-0,76	3,65E-41	-0,71	4,87E-36	-0,57	4,61E-15	-0,38	2,85E-07
ENSG00000112414	<i>GPR126</i>	-1,32	1,86E-78	-0,87	4,08E-34	-1,50	7,75E-87	-0,43	4,08E-08
ENSG00000101346	<i>POFUT1</i>	-0,55	1,58E-11	-0,98	1,35E-33	-0,86	1,08E-20	-1,53	6,90E-62
ENSG00000106804	<i>C5</i>	-1,44	4,65E-97	-0,84	5,17E-33	-0,30	1,34E-03	-0,66	4,08E-14
ENSG00000166900	<i>STX3</i>	-0,72	4,42E-10	-1,40	1,55E-32	-0,73	3,16E-18	-1,41	1,12E-63
ENSG00000175061	<i>NCRNA00188</i>	-0,65	1,37E-16	-0,93	5,19E-32	-0,60	5,61E-14	-0,44	8,43E-08
ENSG00000132688	<i>NES</i>	-1,89	2,37E-62	-1,30	1,90E-31	-1,12	4,44E-49	-0,76	1,05E-23
ENSG00000173706	<i>HEG1</i>	-0,95	3,24E-29	-1,00	2,59E-31	-0,68	9,05E-15	-1,10	8,30E-37
ENSG00000152291	<i>TGOLN2</i>	-0,44	9,26E-13	-0,71	1,05E-30	-1,09	3,83E-49	-0,49	8,29E-11
ENSG00000141458	<i>NPC1</i>	-0,99	9,75E-38	-0,89	2,02E-30	-0,28	7,14E-03	-0,92	2,15E-21
ENSG00000124766	<i>SOX4</i>	-1,03	1,28E-14	-1,56	3,46E-30	-0,70	3,82E-23	-1,22	6,24E-68
ENSG00000167470	<i>MIDN</i>	-0,99	1,98E-28	-1,02	1,23E-29	-1,45	8,64E-36	-1,70	1,27E-48
ENSG00000175215	<i>CTDSP2</i>	-0,28	4,77E-04	-0,85	1,35E-29	-0,42	9,57E-07	-1,27	2,25E-52
ENSG00000130741	<i>EIF2S3</i>	-0,75	5,41E-25	-0,81	3,92E-28	-1,36	2,11E-58	-0,85	2,32E-24
ENSG00000082781	<i>ITGB5</i>	-1,07	1,27E-51	-0,78	4,81E-28	-0,43	3,29E-05	-0,50	1,17E-06
ENSG00000147526	<i>TACC1</i>	-1,34	4,34E-39	-1,10	1,14E-26	-0,85	3,66E-21	-1,35	1,42E-50
ENSG00000057019	<i>DCBLD2</i>	-0,87	4,20E-31	-0,81	2,60E-26	-0,89	2,06E-22	-0,69	3,11E-14
ENSG00000169242	<i>EFNA1</i>	-1,18	2,91E-46	-0,88	7,64E-26	-0,83	7,16E-12	-0,85	2,01E-12
ENSG00000063046	<i>EIF4B</i>	-0,39	5,20E-10	-0,65	8,41E-26	-0,55	3,69E-13	-0,34	1,83E-05
ENSG00000176619	<i>LMNB2</i>	-0,38	1,32E-04	-0,98	8,98E-26	-0,38	7,59E-05	-1,74	4,41E-83
ENSG00000115363	<i>FAM176A</i>	-0,66	1,69E-09	-1,15	4,69E-25	-0,65	1,27E-03	-0,75	1,59E-04

ENSG00000111371	<i>SLC38A1</i>	-1,10	1,11E-63	-0,69	5,46E-25	-0,63	1,09E-16	-0,58	2,65E-14
ENSG00000143515	<i>ATP8B2</i>	-0,56	1,62E-10	-0,90	3,18E-24	-0,26	2,31E-03	-0,91	1,25E-29
ENSG00000188846	<i>RPL14</i>	-0,57	1,48E-21	-0,60	1,73E-23	-0,82	2,35E-26	-0,56	7,69E-13
ENSG00000113739	<i>STC2</i>	-1,67	5,88E-69	-0,95	2,63E-23	-0,94	1,37E-13	-1,21	9,58E-22
ENSG00000003989	<i>SLC7A2</i>	-1,78	1,99E-88	-0,90	2,88E-23	-1,03	6,32E-24	-1,36	5,10E-41
ENSG00000142949	<i>PTPRF</i>	-0,59	2,39E-16	-0,71	3,11E-23	-0,74	7,71E-27	-0,61	1,72E-18
ENSG00000170889	<i>RPS9</i>	-0,66	1,45E-28	-0,59	4,13E-23	-0,63	7,72E-16	-0,39	1,03E-06
ENSG00000070756	<i>PABPC1</i>	-0,64	4,84E-24	-0,63	5,71E-23	-0,78	4,68E-27	-0,42	1,76E-08
ENSG00000171314	<i>PGAM1</i>	-1,20	6,56E-48	-0,81	2,93E-22	-1,22	1,59E-26	-1,96	9,40E-64
ENSG00000148411	<i>NACC2</i>	-0,32	8,63E-03	-1,09	4,48E-22	-0,35	5,36E-04	-1,54	3,84E-54
ENSG00000096696	<i>DSP</i>	-1,07	1,91E-54	-0,67	2,31E-21	-0,58	3,30E-17	-0,36	3,91E-07
ENSG00000112306	<i>RPS12</i>	-0,85	2,44E-42	-0,60	3,86E-21	-0,84	1,71E-28	-0,31	1,64E-04
ENSG00000088930	<i>XRN2</i>	-0,27	1,42E-04	-0,63	1,42E-20	-0,62	1,15E-15	-0,33	3,31E-05
ENSG00000196576	<i>PLXNB2</i>	-0,31	1,41E-04	-0,72	1,90E-20	-0,79	3,03E-29	-0,56	3,78E-15
ENSG00000078269	<i>SYNJ2</i>	-1,19	6,03E-61	-0,68	2,05E-20	-0,59	6,45E-12	-0,25	5,89E-03
ENSG00000128272	<i>ATF4</i>	-0,44	2,25E-13	-0,56	2,43E-20	-0,46	3,24E-13	-0,64	1,76E-25
ENSG00000149273	<i>RPS3</i>	-0,52	4,27E-20	-0,53	3,11E-20	-0,53	1,08E-09	-0,28	3,19E-03
ENSG00000127863	<i>TNFRSF19</i>	-1,20	2,20E-43	-0,80	4,15E-20	-0,93	9,59E-16	-0,63	4,23E-08
ENSG00000133657	<i>ATP13A3</i>	-0,81	3,77E-26	-0,70	1,01E-19	-0,22	8,96E-03	-0,66	1,80E-17
ENSG00000198034	<i>RPS4X</i>	-0,53	5,98E-15	-0,61	1,21E-19	-0,83	3,15E-29	-0,54	4,61E-13
ENSG00000070614	<i>NDST1</i>	-0,33	7,34E-05	-0,73	1,22E-19	-0,47	2,05E-11	-1,10	2,71E-58
ENSG00000136237	<i>RAPGEF5</i>	-0,84	1,11E-18	-0,87	2,19E-19	-0,48	2,09E-06	-0,98	1,67E-23
ENSG00000055163	<i>CYFIP2</i>	-0,61	5,68E-12	-0,80	5,16E-19	-1,14	3,97E-09	-0,70	3,27E-04
ENSG00000120254	<i>MTHFD1L</i>	-0,96	1,86E-26	-0,80	1,21E-18	-1,05	1,06E-22	-0,69	1,47E-10
ENSG00000100364	<i>C22ORF9</i>	-0,49	6,84E-07	-0,85	1,26E-18	-0,36	1,27E-03	-1,27	5,85E-32
ENSG00000101444	<i>AHCY</i>	-1,02	2,56E-50	-0,62	1,48E-18	-1,04	6,15E-41	-0,45	1,63E-08
ENSG00000131236	<i>CAP1</i>	-0,21	3,52E-03	-0,58	1,75E-18	-0,26	1,37E-03	-0,41	1,29E-07
ENSG00000147677	<i>EIF3H</i>	-0,25	2,53E-03	-0,68	1,75E-18	-0,35	5,01E-06	-0,86	7,40E-31
ENSG00000138074	<i>SLC5A6</i>	-0,82	3,89E-24	-0,71	3,41E-18	-0,84	2,08E-14	-0,60	5,30E-08
ENSG00000092758	<i>COL9A3</i>	-1,39	9,09E-30	-1,07	7,97E-18	-1,07	1,66E-07	-0,68	1,08E-03
ENSG00000215021	<i>PHB2</i>	-0,44	3,33E-10	-0,61	9,11E-18	-0,89	3,13E-28	-0,45	3,79E-08
ENSG00000122406	<i>RPL5</i>	-0,71	2,24E-32	-0,52	1,92E-17	-0,75	1,00E-30	-0,21	2,80E-03

ENSG00000147324	<i>MFHAS1</i>	-0,40	2,48E-04	-0,89	2,00E-17	-1,07	4,03E-20	-1,61	1,39E-42
ENSG00000141568	<i>FOXK2</i>	-0,38	3,70E-06	-0,67	4,39E-17	-0,74	4,12E-14	-0,91	1,27E-20
ENSG00000142676	<i>RPL11</i>	-0,53	3,69E-17	-0,53	4,43E-17	-0,44	4,80E-09	-0,23	3,12E-03
ENSG00000133275	<i>CSNK1G2</i>	-0,63	1,24E-08	-0,92	8,73E-17	-0,56	1,09E-06	-0,84	9,94E-14
ENSG00000197081	<i>IGF2R</i>	-0,65	2,27E-28	-0,50	1,32E-16	-0,99	1,84E-48	-0,64	3,40E-21
ENSG00000100316	<i>LOC653881</i>	-0,61	4,52E-24	-0,51	1,80E-16	-0,80	1,12E-30	-0,23	2,46E-03
ENSG00000164171	<i>ITGA2</i>	-1,94	2,57E-111	-0,71	1,89E-16	-0,43	3,14E-03	-0,61	1,71E-05
ENSG00000165238	<i>WNK2</i>	-0,75	8,59E-12	-0,91	1,89E-16	-0,82	2,48E-10	-0,81	3,46E-10
ENSG00000125398	<i>SOX9</i>	-0,72	1,28E-16	-0,72	2,13E-16	-1,71	4,92E-91	-0,63	1,58E-14
ENSG00000182272	<i>B4GALNT4</i>	-2,08	3,53E-46	-1,13	1,09E-15	-1,64	3,90E-14	-0,93	1,88E-05
ENSG00000167635	<i>ZNF146</i>	-0,73	1,37E-15	-0,74	1,26E-15	-1,92	4,43E-90	-0,43	8,15E-06
ENSG00000171490	<i>RSL1D1</i>	-0,22	6,51E-04	-0,50	1,74E-15	-0,72	3,24E-21	-0,55	1,12E-12
ENSG00000110700	<i>RPS13</i>	-0,60	1,06E-22	-0,50	1,98E-15	-0,61	8,12E-16	-0,22	6,87E-03
ENSG00000144713	<i>RPL32</i>	-0,73	3,05E-28	-0,53	3,28E-15	-0,50	7,34E-12	-0,34	8,15E-06
ENSG00000077782	<i>FGFR1</i>	-0,68	3,97E-10	-0,83	1,63E-14	-0,78	5,88E-07	-0,75	1,77E-06
ENSG00000158985	<i>CDC42SE2</i>	-0,48	1,69E-06	-0,77	1,68E-14	-0,53	2,37E-05	-1,07	2,18E-18
ENSG00000070669	<i>ASNS</i>	-1,73	1,15E-67	-0,77	2,42E-14	-1,00	2,41E-23	-0,65	9,83E-11
ENSG00000133195	<i>SLC39A11</i>	-0,76	9,20E-07	-1,18	2,65E-14	-0,77	3,52E-07	-1,12	4,45E-14
ENSG00000187109	<i>NAP1L1</i>	-1,17	6,70E-65	-0,53	4,83E-14	-1,37	1,61E-66	-0,26	2,59E-03
ENSG00000140443	<i>IGF1R</i>	-0,63	2,50E-18	-0,55	5,15E-14	-0,74	1,12E-13	-0,73	1,38E-13
ENSG00000166441	<i>RPL27A</i>	-0,74	9,45E-24	-0,57	5,52E-14	-0,72	3,74E-20	-0,24	5,89E-03
ENSG00000162889	<i>MAPKAPK2</i>	-0,59	7,39E-09	-0,77	1,03E-13	-1,19	2,63E-33	-1,42	1,30E-46
ENSG00000166986	<i>MARS</i>	-0,87	1,11E-33	-0,55	1,33E-13	-0,88	1,84E-26	-0,29	9,67E-04
ENSG00000079432	<i>CIC</i>	-0,81	8,45E-16	-0,76	1,56E-13	-0,81	1,16E-15	-0,67	2,34E-11
ENSG00000133112	<i>LOC285741</i>	-0,69	1,73E-25	-0,50	1,63E-13	-0,51	1,46E-13	-0,24	9,67E-04
ENSG00000144711	<i>IQSEC1</i>	-0,29	9,10E-04	-0,61	2,26E-13	-0,42	5,61E-05	-0,51	1,19E-06
ENSG00000108298	<i>RPL19</i>	-0,47	1,76E-14	-0,46	2,29E-13	-0,42	1,73E-11	-0,18	7,99E-03
ENSG00000140988	<i>RPS2</i>	-0,47	5,62E-13	-0,47	3,58E-13	-0,67	1,94E-24	-0,31	7,83E-06
ENSG00000035928	<i>RFC1</i>	-0,38	3,83E-07	-0,53	3,93E-13	-0,60	8,25E-15	-0,93	5,81E-34
ENSG00000142937	<i>RPS8</i>	-0,63	1,68E-17	-0,55	4,66E-13	-0,57	1,79E-14	-0,22	6,90E-03
ENSG00000116584	<i>ARHGEF2</i>	-0,83	1,12E-08	-1,05	1,12E-12	-1,39	6,24E-44	-1,68	3,26E-63
ENSG00000157827	<i>FMNL2</i>	-1,36	5,00E-77	-0,53	1,74E-12	-0,63	2,40E-12	-0,51	1,94E-08

ENSG00000138095	<i>LRPPRC</i>	-0,64	4,53E-26	-0,44	2,24E-12	-0,59	2,37E-15	-0,43	2,53E-08
ENSG00000103429	<i>BFAR</i>	-0,26	9,83E-04	-0,52	2,58E-12	-0,29	4,16E-03	-0,30	3,56E-03
ENSG00000205730	<i>ITPRIPL2</i>	-0,78	4,07E-13	-0,76	3,79E-12	-1,29	7,08E-13	-1,77	3,13E-22
ENSG00000146729	<i>GBAS</i>	-0,53	1,84E-05	-0,84	4,59E-12	-0,75	5,64E-10	-1,13	5,22E-21
ENSG00000169908	<i>TM4SF1</i>	-1,73	3,75E-101	-0,58	7,12E-12	-1,49	1,80E-05	-1,01	4,74E-03
ENSG00000087266	<i>SH3BP2</i>	-0,77	1,57E-09	-0,88	1,09E-11	-0,57	1,19E-04	-1,34	4,59E-20
ENSG00000137818	<i>RPLP1</i>	-0,64	5,76E-17	-0,53	1,50E-11	-0,89	7,63E-26	-0,61	1,50E-12
ENSG00000103187	<i>COTL1</i>	-1,89	1,18E-48	-0,84	1,81E-11	-1,04	1,54E-13	-0,51	3,85E-04
ENSG00000137309	<i>HMGA1</i>	-1,06	3,54E-38	-0,57	2,50E-11	-1,40	9,82E-67	-0,49	3,29E-09
ENSG00000168758	<i>SEMA4C</i>	-1,24	3,10E-31	-0,72	2,76E-11	-0,54	1,70E-06	-0,31	9,26E-03
ENSG00000128829	<i>EIF2AK4</i>	-0,81	1,17E-27	-0,51	2,84E-11	-1,08	9,31E-21	-0,69	2,07E-09
ENSG00000198858	<i>C19ORF22</i>	-0,53	5,36E-07	-0,70	3,50E-11	-0,48	4,25E-06	-0,58	2,42E-08
ENSG00000137166	<i>FOXP4</i>	-0,41	3,68E-05	-0,64	3,71E-11	-0,94	1,54E-22	-0,67	2,14E-12
ENSG00000168488	<i>ATXN2L</i>	-0,34	5,66E-06	-0,48	6,36E-11	-0,27	1,13E-03	-0,59	4,62E-14
ENSG00000146433	<i>TMEM181</i>	-0,91	1,10E-34	-0,50	7,15E-11	-0,28	2,18E-03	-0,80	1,63E-21
ENSG00000128342	<i>LIF</i>	-0,71	2,08E-04	-1,24	7,23E-11	-2,25	5,80E-30	-1,40	8,51E-14
ENSG00000260032	<i>LINC00657</i>	-0,33	1,10E-06	-0,43	8,35E-11	-0,31	1,49E-04	-0,50	2,28E-10
ENSG00000101384	<i>JAG1</i>	-0,55	1,68E-13	-0,49	9,12E-11	-1,41	1,52E-95	-0,53	2,00E-14
ENSG00000116962	<i>NID1</i>	-0,83	1,63E-36	-0,44	1,01E-10	-0,77	6,17E-24	-0,48	7,43E-10
ENSG00000145425	<i>LOC100130107</i>	-0,71	1,94E-18	-0,53	1,08E-10	-0,74	5,80E-28	-0,30	3,01E-05
ENSG00000182606	<i>TRAK1</i>	-0,75	3,34E-20	-0,54	1,77E-10	-0,37	4,97E-03	-0,47	2,32E-04
ENSG00000189221	<i>MAOA</i>	-0,38	2,05E-04	-0,64	1,89E-10	-0,47	2,46E-03	-0,53	4,92E-04
ENSG00000185624	<i>P4HB</i>	-0,52	2,77E-17	-0,40	2,01E-10	-0,79	5,28E-29	-0,93	2,07E-39
ENSG00000141905	<i>NFIC</i>	-0,87	9,54E-10	-0,92	2,47E-10	-0,51	1,26E-04	-0,49	2,84E-04
ENSG00000142089	<i>IFITM3</i>	-1,02	1,07E-18	-0,74	2,54E-10	-0,43	1,88E-06	-0,54	1,21E-09
ENSG00000132970	<i>WASF3</i>	-0,87	8,19E-12	-0,81	3,00E-10	-0,85	1,61E-05	-0,95	1,24E-06
ENSG00000184640	<i>SEPT9</i>	-0,20	4,52E-03	-0,42	3,00E-10	-0,46	3,98E-12	-0,35	2,77E-07
ENSG00000007047	<i>MARK4</i>	-0,76	5,81E-08	-0,88	4,47E-10	-1,31	2,36E-21	-0,82	2,00E-09
ENSG00000175727	<i>MLXIP</i>	-0,28	9,27E-03	-0,64	6,01E-10	-0,41	2,91E-04	-1,29	1,72E-31
ENSG00000182319	<i>SGK223</i>	-1,04	1,79E-21	-0,69	6,75E-10	-0,68	7,17E-07	-0,46	1,10E-03
ENSG00000116017	<i>ARID3A</i>	-0,31	2,48E-04	-0,51	7,01E-10	-0,86	8,41E-27	-0,65	8,90E-16
ENSG00000142192	<i>APP</i>	-1,03	2,56E-46	-0,46	7,17E-10	-0,43	7,85E-13	-0,30	1,33E-06

ENSG00000168615	<i>ADAM9</i>	-0,95	3,53E-42	-0,44	9,03E-10	-0,52	2,60E-11	-0,22	9,44E-03
ENSG00000047457	<i>CP</i>	-2,40	1,92E-44	-1,10	1,09E-09	-1,77	7,74E-45	-0,54	2,16E-05
ENSG00000175826	<i>DULLARD</i>	-0,78	1,06E-08	-0,85	1,09E-09	-1,69	1,31E-29	-1,90	5,08E-37
ENSG00000167491	<i>GATAD2A</i>	-0,48	3,13E-06	-0,62	1,17E-09	-1,10	7,10E-27	-0,88	3,84E-18
ENSG00000084652	<i>TXLNA</i>	-0,41	5,35E-07	-0,49	1,38E-09	-1,03	3,29E-27	-0,47	1,27E-06
ENSG00000100065	<i>CARD10</i>	-0,76	5,01E-19	-0,53	1,59E-09	-0,34	1,20E-03	-0,28	7,71E-03
ENSG00000100422	<i>CERK</i>	-0,46	1,91E-06	-0,58	1,98E-09	-1,31	4,40E-35	-0,99	5,68E-21
ENSG00000159128	<i>IFNGR2</i>	-0,78	1,19E-10	-0,73	3,14E-09	-0,65	1,21E-06	-0,74	2,42E-08
ENSG00000065060	<i>UHRF1BP1</i>	-0,31	9,76E-05	-0,46	3,37E-09	-0,42	4,28E-05	-1,57	2,77E-57
ENSG00000134686	<i>PHC2</i>	-0,78	1,62E-21	-0,50	3,52E-09	-0,92	7,71E-21	-0,57	7,47E-09
ENSG00000163435	<i>ELF3</i>	-1,34	1,05E-10	-1,23	5,14E-09	-0,48	4,25E-05	-0,65	1,70E-08
ENSG00000124226	<i>RNF114</i>	-0,25	4,15E-03	-0,47	6,67E-09	-0,90	1,72E-22	-0,99	4,12E-27
ENSG00000008282	<i>SYPL1</i>	-0,49	3,47E-07	-0,57	7,20E-09	-0,95	3,23E-23	-0,74	6,02E-15
ENSG00000163584	<i>RPL22L1</i>	-1,09	6,32E-14	-0,85	9,01E-09	-1,26	6,58E-20	-0,54	1,08E-04
ENSG00000113387	<i>SUB1</i>	-0,26	2,07E-03	-0,46	1,22E-08	-0,33	3,23E-06	-0,65	1,55E-21
ENSG00000088826	<i>SMOX</i>	-0,42	1,62E-03	-0,75	1,24E-08	-0,98	1,28E-11	-0,62	2,49E-05
ENSG00000103005	<i>C16ORF57</i>	-0,27	6,12E-03	-0,53	1,24E-08	-0,73	1,23E-12	-0,50	1,58E-06
ENSG00000129473	<i>BCL2L2</i>	-0,52	4,91E-09	-0,51	1,53E-08	-0,65	7,61E-08	-0,92	1,06E-14
ENSG00000130723	<i>BAT2L1</i>	-0,25	9,31E-04	-0,41	2,22E-08	-0,35	1,53E-06	-0,24	2,25E-03
ENSG00000188559	<i>RALGAPA2</i>	-1,02	1,21E-32	-0,50	2,22E-08	-1,41	4,80E-40	-0,31	6,05E-03
ENSG00000143384	<i>MCL1</i>	-1,25	3,09E-67	-0,42	2,23E-08	-1,50	1,35E-98	-0,89	3,62E-36
ENSG00000101040	<i>ZMYND8</i>	-0,65	1,76E-20	-0,41	2,42E-08	-0,76	3,72E-19	-0,32	3,49E-04
ENSG00000181789	<i>COPG</i>	-0,21	8,90E-03	-0,42	2,78E-08	-0,47	4,50E-09	-1,43	3,74E-73
ENSG00000136295	<i>TTYH3</i>	-0,85	1,94E-31	-0,42	2,82E-08	-0,27	3,71E-03	-0,29	1,76E-03
ENSG00000100889	<i>PCK2</i>	-0,58	3,11E-16	-0,40	3,09E-08	-0,80	2,34E-10	-1,43	5,65E-30
ENSG00000008988	<i>RPS20</i>	-0,51	1,70E-15	-0,37	3,25E-08	-0,55	1,36E-12	-0,28	6,01E-04
ENSG00000145907	<i>G3BP1</i>	-0,30	1,91E-05	-0,39	3,66E-08	-0,59	1,30E-16	-0,38	2,59E-07
ENSG00000135486	<i>HNRNPA1</i>	-0,24	1,03E-03	-0,37	6,67E-08	-0,64	5,10E-26	-0,27	1,98E-05
ENSG00000116539	<i>ASH1L</i>	-0,55	3,99E-07	-0,59	9,45E-08	-0,71	4,30E-17	-0,26	3,72E-03
ENSG00000090621	<i>PABPC4</i>	-0,62	4,31E-13	-0,47	9,83E-08	-0,91	8,53E-23	-0,35	3,72E-04
ENSG00000142453	<i>CARM1</i>	-0,95	6,35E-20	-0,57	1,00E-07	-1,11	3,68E-22	-1,19	1,58E-25
ENSG00000077232	<i>DNAJC10</i>	-0,34	1,07E-06	-0,37	1,21E-07	-0,32	4,23E-04	-1,13	4,65E-41

ENSG00000101255	<i>TRIB3</i>	-0,38	2,96E-07	-0,40	1,35E-07	-0,27	8,91E-03	-1,97	6,28E-91
ENSG00000169813	<i>HNRNPF</i>	-0,21	2,99E-03	-0,36	1,75E-07	-0,65	4,35E-21	-0,39	4,96E-08
ENSG00000171206	<i>TRIM8</i>	-0,50	1,34E-04	-0,68	1,80E-07	-0,51	2,12E-04	-0,62	4,26E-06
ENSG00000118579	<i>MED28</i>	-0,44	1,83E-06	-0,48	1,83E-07	-0,62	3,20E-09	-1,02	3,70E-23
ENSG00000135966	<i>TGFBRAP1</i>	-0,57	2,11E-09	-0,51	1,94E-07	-0,92	2,24E-12	-0,85	6,40E-11
ENSG0000010818	<i>HIVEP2</i>	-1,47	1,11E-24	-0,73	4,94E-07	-1,26	3,10E-19	-1,28	4,14E-20
ENSG00000166197	<i>NOLC1</i>	-0,72	2,58E-20	-0,41	5,86E-07	-1,85	2,91E-99	-0,40	7,55E-06
ENSG0000011009	<i>LYPLA2</i>	-0,40	2,03E-04	-0,53	5,91E-07	-1,44	1,06E-36	-1,89	1,16E-60
ENSG00000147459	<i>DOCK5</i>	-0,40	1,50E-04	-0,52	6,52E-07	-0,60	1,20E-07	-0,71	2,46E-10
ENSG00000132640	<i>BTBD3</i>	-1,01	1,03E-22	-0,53	6,53E-07	-1,18	9,53E-26	-0,34	4,41E-03
ENSG00000142207	<i>URB1</i>	-0,40	2,98E-05	-0,48	7,87E-07	-0,93	1,92E-19	-0,50	1,99E-06
ENSG00000198369	<i>SPRED2</i>	-0,49	4,42E-10	-0,39	8,77E-07	-0,54	8,94E-09	-0,38	8,46E-05
ENSG00000099942	<i>CRKL</i>	-0,45	1,20E-07	-0,42	9,36E-07	-0,78	6,59E-22	-1,05	1,30E-38
ENSG00000234741	<i>GAS5</i>	-0,56	1,69E-07	-0,53	1,01E-06	-0,95	1,04E-33	-0,38	2,41E-06
ENSG00000197724	<i>PHF2</i>	-0,51	5,12E-05	-0,62	1,12E-06	-0,65	5,00E-09	-0,81	1,58E-13
ENSG00000129250	<i>KIF1C</i>	-0,34	4,95E-05	-0,41	1,19E-06	-1,31	6,37E-86	-0,25	4,01E-04
ENSG00000119383	<i>PPP2R4</i>	-0,35	2,88E-05	-0,41	1,20E-06	-0,94	8,94E-26	-1,12	5,21E-36
ENSG00000137331	<i>IER3</i>	-2,46	9,01E-119	-0,51	1,25E-06	-1,54	3,84E-48	-0,55	4,21E-07
ENSG00000128849	<i>CGNL1</i>	-0,53	2,18E-07	-0,50	1,43E-06	-1,45	1,25E-23	-0,45	2,35E-03
ENSG00000107957	<i>SH3PXD2A</i>	-0,52	8,79E-10	-0,42	1,68E-06	-1,95	1,43E-61	-0,54	3,65E-06
ENSG00000149187	<i>CELF1</i>	-0,48	4,84E-10	-0,37	2,18E-06	-0,89	9,89E-37	-0,31	2,71E-05
ENSG00000102763	<i>KIAA0564</i>	-0,65	2,84E-09	-0,53	2,18E-06	-0,55	1,29E-05	-0,57	6,46E-06
ENSG00000138166	<i>DUSP5</i>	-2,01	2,05E-14	-1,25	2,76E-06	-2,04	2,50E-34	-0,54	1,05E-03
ENSG00000153879	<i>CEBPG</i>	-0,53	1,11E-09	-0,42	3,54E-06	-0,67	4,75E-14	-0,42	4,43E-06
ENSG00000120942	<i>UBIAD1</i>	-0,33	4,50E-03	-0,52	3,80E-06	-0,43	1,36E-03	-0,87	1,49E-11
ENSG00000119559	<i>C19ORF25</i>	-0,60	1,21E-06	-0,58	3,81E-06	-0,85	2,08E-10	-0,56	3,58E-05
ENSG00000197136	<i>PCNXL3</i>	-0,27	8,78E-03	-0,45	4,26E-06	-0,74	3,69E-22	-0,39	5,64E-07
ENSG00000134970	<i>TICAM2</i>	-0,56	2,63E-11	-0,40	5,16E-06	-0,72	2,91E-14	-0,87	3,24E-20
ENSG00000132382	<i>MYBBP1A</i>	-0,38	2,66E-04	-0,47	5,41E-06	-1,28	4,15E-52	-0,41	1,44E-06
ENSG00000150093	<i>ITGB1</i>	-0,74	3,98E-30	-0,32	5,49E-06	-0,56	2,24E-14	-0,25	1,35E-03
ENSG00000206053	<i>HN1L</i>	-0,28	1,48E-03	-0,39	6,16E-06	-1,09	1,29E-48	-1,14	1,42E-53
ENSG00000259974	<i>LINC00261</i>	-0,67	5,21E-20	-0,35	7,02E-06	-0,45	2,55E-08	-0,63	2,32E-15

ENSG00000135069	<i>C8ORF62</i>	-0,32	7,34E-05	-0,36	9,27E-06	-1,04	5,83E-28	-0,58	2,31E-09
ENSG00000177954	<i>RPS27</i>	-0,57	1,88E-11	-0,39	1,08E-05	-0,54	4,57E-13	-0,23	4,05E-03
ENSG00000104885	<i>DOT1L</i>	-0,73	1,86E-16	-0,41	1,09E-05	-0,55	1,08E-06	-0,70	4,01E-10
ENSG00000165802	<i>NELF</i>	-0,96	1,21E-34	-0,37	1,11E-05	-0,93	1,24E-19	-0,31	3,82E-03
ENSG00000025772	<i>TOMM34</i>	-0,65	1,80E-10	-0,47	1,28E-05	-1,66	2,20E-38	-1,41	1,07E-29
ENSG00000139722	<i>VPS37B</i>	-0,65	1,04E-03	-0,87	1,35E-05	-0,74	6,14E-06	-1,03	2,10E-10
ENSG00000112242	<i>E2F3</i>	-0,64	1,53E-06	-0,59	1,86E-05	-0,74	1,16E-18	-0,63	4,43E-14
ENSG00000197498	<i>RPF2</i>	-0,50	7,63E-04	-0,63	2,12E-05	-0,36	4,65E-03	-0,55	9,30E-06
ENSG00000087074	<i>PPP1R15A</i>	-0,90	2,08E-08	-0,70	2,80E-05	-1,19	3,03E-26	-0,51	6,14E-06
ENSG00000148468	<i>FAM171A1</i>	-0,98	3,27E-26	-0,41	3,50E-05	-0,56	1,03E-05	-0,56	1,24E-05
ENSG00000010404	<i>IDS</i>	-1,00	5,06E-11	-0,65	3,61E-05	-0,55	1,06E-03	-0,95	5,84E-09
ENSG00000170027	<i>YWHAG</i>	-0,44	2,69E-10	-0,30	4,00E-05	-0,33	7,60E-06	-0,69	7,86E-23
ENSG00000119231	<i>SEN5</i>	-0,45	1,52E-05	-0,44	4,06E-05	-0,30	4,93E-03	-0,35	1,06E-03
ENSG00000175224	<i>KIAA0652</i>	-0,49	2,13E-09	-0,35	4,53E-05	-1,03	4,57E-25	-0,84	4,32E-17
ENSG00000125944	<i>HNRNPR</i>	-0,27	1,83E-04	-0,29	5,12E-05	-0,74	8,33E-21	-0,31	1,69E-04
ENSG00000132510	<i>KDM6B</i>	-0,68	8,63E-07	-0,56	8,25E-05	-0,28	8,73E-03	-0,30	5,98E-03
ENSG00000189343	<i>RPS2P46</i>	-0,41	1,45E-05	-0,38	8,95E-05	-0,77	9,99E-14	-0,43	6,86E-05
ENSG00000165030	<i>NFIL3</i>	-0,89	5,68E-18	-0,42	1,21E-04	-0,78	4,60E-11	-0,49	4,74E-05
ENSG00000085415	<i>SEH1L</i>	-0,49	4,25E-07	-0,38	1,40E-04	-0,82	8,48E-15	-0,57	9,81E-08
ENSG00000166887	<i>VPS39</i>	-0,33	4,20E-03	-0,43	1,59E-04	-0,93	3,45E-17	-0,63	8,86E-09
ENSG00000128595	<i>CALU</i>	-0,56	3,76E-17	-0,27	1,78E-04	-0,42	1,00E-09	-0,51	6,49E-14
ENSG00000136888	<i>ATP6V1G1</i>	-1,03	4,02E-24	-0,41	1,96E-04	-1,93	1,67E-85	-0,50	2,79E-07
ENSG00000198952	<i>SMG5</i>	-0,66	5,95E-15	-0,34	2,01E-04	-1,34	2,46E-56	-0,41	2,88E-06
ENSG00000101109	<i>STK4</i>	-0,22	6,78E-03	-0,29	2,44E-04	-0,58	8,27E-09	-0,36	5,65E-04
ENSG00000157985	<i>AGAP1</i>	-0,52	9,45E-08	-0,38	2,51E-04	-1,04	2,10E-13	-0,83	2,99E-09
ENSG00000185201	<i>IFITM2</i>	-1,91	2,52E-17	-0,84	2,65E-04	-0,80	1,36E-03	-1,14	3,64E-06
ENSG00000173020	<i>ADRBK1</i>	-0,40	5,43E-06	-0,33	2,67E-04	-0,36	1,80E-04	-0,64	4,48E-12
ENSG00000166526	<i>ZNF3</i>	-0,48	1,42E-05	-0,42	2,70E-04	-1,17	7,67E-23	-0,44	3,09E-04
ENSG00000173065	<i>C17ORF63</i>	-0,75	3,99E-08	-0,52	2,81E-04	-1,25	7,71E-31	-1,05	1,22E-22
ENSG00000179195	<i>ZNF664</i>	-0,32	1,41E-04	-0,32	2,81E-04	-0,71	7,51E-17	-0,65	1,29E-14
ENSG00000131873	<i>CHSY1</i>	-1,21	4,65E-26	-0,44	2,84E-04	-1,48	3,32E-07	-0,87	3,10E-03
ENSG00000102317	<i>RBM3</i>	-0,62	2,83E-10	-0,38	3,12E-04	-0,75	1,31E-14	-0,31	2,54E-03

ENSG00000103342	<i>GSPT1</i>	-0,27	1,77E-04	-0,26	3,39E-04	-0,74	1,58E-23	-0,28	3,88E-04
ENSG00000011275	<i>RNF216</i>	-0,39	5,92E-05	-0,35	3,61E-04	-0,59	1,80E-11	-0,26	5,05E-03
ENSG00000130702	<i>LAMA5</i>	-0,88	1,92E-21	-0,35	4,24E-04	-0,42	8,81E-07	-0,59	1,58E-12
ENSG00000177410	<i>C20ORF199</i>	-0,53	1,40E-05	-0,44	4,91E-04	-0,95	3,94E-18	-0,57	3,33E-07
ENSG00000160691	<i>SHC1</i>	-0,40	1,58E-06	-0,30	5,54E-04	-1,00	2,97E-42	-0,30	9,43E-05
ENSG00000134086	<i>VHL</i>	-0,25	6,92E-03	-0,31	5,78E-04	-0,56	6,76E-10	-0,79	1,66E-18
ENSG00000218226	<i>TATDN2P2</i>	-1,34	3,38E-12	-0,68	6,99E-04	-0,87	2,18E-04	-1,00	2,03E-05
ENSG00000164543	<i>STK17A</i>	-0,36	4,56E-03	-0,43	7,03E-04	-0,99	9,71E-39	-0,74	1,55E-22
ENSG00000143126	<i>CELSR2</i>	-0,73	5,00E-10	-0,42	7,19E-04	-0,50	2,03E-03	-0,72	6,02E-06
ENSG00000167460	<i>TPM4</i>	-1,05	1,99E-54	-0,25	8,37E-04	-1,33	6,84E-90	-0,35	4,97E-07
ENSG00000132182	<i>NUP210</i>	-0,44	9,19E-08	-0,29	8,65E-04	-0,75	7,44E-21	-0,62	1,86E-14
ENSG00000105568	<i>PPP2R1A</i>	-0,28	2,50E-03	-0,31	8,75E-04	-0,80	1,98E-21	-0,34	1,09E-04
ENSG00000166562	<i>SEC11C</i>	-0,66	1,38E-11	-0,35	9,34E-04	-1,07	1,53E-08	-0,68	4,29E-04
ENSG00000196588	<i>MKL1</i>	-0,65	2,59E-05	-0,53	9,36E-04	-1,22	5,24E-26	-0,37	2,52E-03
ENSG00000101752	<i>MIB1</i>	-0,35	5,90E-05	-0,30	1,14E-03	-0,39	5,80E-06	-0,48	1,05E-08
ENSG00000148426	<i>C10ORF47</i>	-0,90	4,06E-07	-0,60	1,21E-03	-0,54	3,94E-03	-0,54	3,69E-03
ENSG00000085788	<i>DDHD2</i>	-0,58	1,87E-08	-0,36	1,23E-03	-0,58	5,66E-07	-0,48	3,01E-05
ENSG00000108557	<i>RAI1</i>	-0,41	1,62E-03	-0,42	1,30E-03	-0,60	1,09E-07	-0,98	9,49E-19
ENSG00000171456	<i>ASXL1</i>	-0,41	2,96E-07	-0,27	1,30E-03	-0,27	5,13E-04	-0,42	3,02E-08
ENSG00000064309	<i>CDON</i>	-0,58	1,95E-04	-0,52	1,41E-03	-0,73	4,40E-06	-0,73	3,75E-06
ENSG00000188021	<i>UBQLN2</i>	-0,60	1,02E-04	-0,51	1,51E-03	-1,07	9,28E-13	-0,53	4,92E-04
ENSG00000047315	<i>POLR2B</i>	-0,22	4,49E-03	-0,25	1,61E-03	-0,59	6,88E-17	-0,25	8,38E-04
ENSG00000163479	<i>SSR2</i>	-0,46	1,53E-09	-0,26	1,68E-03	-0,57	3,98E-17	-0,33	1,82E-06
ENSG00000142186	<i>SCYL1</i>	-0,64	1,27E-12	-0,30	2,16E-03	-0,39	2,35E-04	-0,35	1,21E-03
ENSG00000100029	<i>PES1</i>	-0,50	4,53E-06	-0,35	2,18E-03	-1,05	1,54E-33	-0,31	8,17E-04
ENSG00000198860	<i>TSEN15</i>	-0,56	1,68E-05	-0,42	2,23E-03	-0,46	1,73E-04	-0,44	3,18E-04
ENSG00000115718	<i>PROC</i>	-0,40	1,43E-06	-0,27	2,47E-03	-1,05	1,34E-07	-0,87	1,36E-05
ENSG00000023445	<i>BIRC3</i>	-0,58	9,99E-03	-0,68	2,51E-03	-1,61	6,73E-21	-0,68	8,45E-05
ENSG00000101294	<i>HM13</i>	-0,29	5,87E-04	-0,26	2,55E-03	-0,25	1,17E-03	-0,27	5,51E-04
ENSG00000146858	<i>ZC3HAV1L</i>	-0,55	7,19E-03	-0,62	2,59E-03	-1,03	2,53E-09	-0,81	3,46E-06
ENSG00000196781	<i>LOC645381</i>	-0,30	1,86E-03	-0,29	2,94E-03	-0,22	8,31E-03	-0,27	1,22E-03
ENSG00000064999	<i>ANKS1A</i>	-0,35	1,13E-03	-0,33	2,95E-03	-0,84	2,74E-17	-0,68	4,24E-12

ENSG00000129187	<i>DCTD</i>	-0,41	7,27E-06	-0,29	3,08E-03	-0,70	3,15E-09	-0,33	7,37E-03
ENSG00000049449	<i>RCN1</i>	-0,96	9,77E-16	-0,38	3,29E-03	-0,84	7,61E-22	-1,29	4,85E-49
ENSG00000183723	<i>CMTM4</i>	-0,49	1,73E-08	-0,28	3,32E-03	-0,52	9,77E-07	-0,84	8,03E-16
ENSG00000117505	<i>DR1</i>	-0,37	5,42E-04	-0,32	3,33E-03	-0,80	3,42E-16	-0,60	1,01E-09
ENSG00000182979	<i>MTA1</i>	-0,56	1,66E-06	-0,36	3,40E-03	-0,50	4,17E-06	-0,30	7,33E-03
ENSG00000155130	<i>MARCKS</i>	-0,48	3,00E-07	-0,29	3,40E-03	-0,91	1,45E-33	-0,22	7,08E-03
ENSG00000131446	<i>MGAT1</i>	-0,54	2,35E-10	-0,27	3,49E-03	-0,81	2,47E-21	-0,46	2,01E-07
ENSG00000132463	<i>GRSF1</i>	-0,30	5,42E-04	-0,26	4,29E-03	-0,72	1,14E-20	-0,83	2,68E-27
ENSG00000198142	<i>ANKRD57</i>	-0,49	8,44E-08	-0,28	4,64E-03	-0,47	3,96E-05	-0,57	3,71E-07
ENSG00000116251	<i>RPL22</i>	-0,53	8,27E-09	-0,28	5,00E-03	-0,57	6,54E-09	-0,38	1,41E-04
ENSG00000160888	<i>IER2</i>	-0,58	2,38E-04	-0,45	6,50E-03	-0,68	5,84E-07	-0,47	7,77E-04
ENSG00000167118	<i>URM1</i>	-0,33	6,29E-03	-0,33	6,94E-03	-0,67	3,16E-08	-0,36	3,96E-03
ENSG00000116478	<i>HDAC1</i>	-0,31	2,96E-04	-0,24	6,95E-03	-0,52	2,42E-10	-0,27	1,59E-03
ENSG00000163930	<i>BAP1</i>	-0,26	4,31E-03	-0,25	7,39E-03	-0,65	2,96E-12	-0,45	2,06E-06
ENSG00000168209	<i>DDIT4</i>	-1,59	3,06E-25	-0,43	7,79E-03	-1,29	1,89E-08	-0,79	7,10E-04
ENSG00000112715	<i>VEGFA</i>	-0,95	1,63E-21	-0,29	8,50E-03	-0,27	2,71E-03	-0,47	5,32E-08
ENSG00000178607	<i>ERN1</i>	-0,95	3,88E-08	-0,49	8,65E-03	-0,96	8,01E-07	-0,80	4,36E-05
ENSG00000166068	<i>SPRED1</i>	-0,51	2,52E-04	-0,39	8,90E-03	-0,55	2,25E-04	-0,40	8,70E-03